(d) a disappearance of the new coupled with constancy of the old; or

(e) a reappearance of the old coupled with disappearance of the

Alternatives (a) and (b) involve a considerable expansion or contraction of the circulation. An adequate cause for either state of things does not exist. The remaining three alternatives are all possible solutions. Alternative (c) would mean an expansion, alternative (d) a contraction of the currency, whilst alternative (e) might mean either, or a constant circulation. The question, therefore, is which of these solutions most probably represents the facts. Now reappearance of a mintage must either be from outside India or from hoards. Statistics already quoted show that the reappearance of coin from abroad cannot have been of any great moment. Moreover, such reappearance would not be of coins materially older than that mainly current. I take it, therefore, that there has been a reappearance from hoards. Old coin having been longer in existence must have suffered more from hoarding and conversely gains more when hoards return to the circulation. Assuming, then, it to be a fact that coin has returned from hoards, it may be that coin has come back from old and new mintages in quantities such that in the latter case the accession is only equal to the loss: this is alternative (c). Or it may be that the disappearance of the new is greater than its accession, whilst in the case of the old the two are equal: this is alternative (d). Or it may be as in alternative (e), the old coinages have gained more than they have lost whilst the new coinages have lost more than they have gained. In this case (alternative (e)) the circulation has contracted, expanded or remained constant according as the old coinages have gained more or less or the same as the new coinages have lost. I do not, however, think that this alternative (e) correctly represents the facts; for if on balance the old coinages have gained and the new coinages lost, I should have expected this movement in opposite direction to have had a greater effect upon their percentages as shown in the census. Again alternative (d) is not quite so probable as alternative (e). Melting is now less practised, hoarding for the present has not only ceased but accumulations are returning to the circulation. The causes for disappearance are therefore less operative than before. There is, therefore, some ground for the belief that the circulation has slightly expanded this year, or if it has not expanded, that it has remained nearly constant. As, however, the independent line of reasoning followed in the earlier part of this note points alsoto the conclusion that the circulation has expanded, we may, with some confidence, hold that there has, in fact, been a slight expansion. We may perhaps place it at about three crores.

# GOVERNMENT OF INDIA. FINANCE AND COMMERCE DEPARTMENT.

The same of the same Total Gross and Net Indian Sea and Land Customs Revenue (excluding Salt Revenue). [In thousands of Rupees.]

	7.00		44.	IN THE T	HREE MON	THS, APRI	і то Јин	E, OF	Non-N	03/3/2
	1886-87.	1887-88.	1888-89.	1889-90.	1890-91.	1891-92.	1892-93.	1893-94.	1894-95.	1895-96.
IMPORTS (GROSS REVENUE).	S 20 7 10	1.000	(E / No. 18)		1000000	100				
Ammunition, and Military	41	***	58		DA I	73	the	No.		
Stores The Land Control of	nyaftas	59	20	52	59	73	76	69	70	77
Spirit	10,00	11,02	11,95	11,96	13,61	12,71	13,77	12,71	13,12	14,90
Other liquors	1,48	1,75	1,65	1,64	1,62	1,84	1,56	1,71	1,44	1,70
parel, drapery, etc.	-			-	_				1,52	1,57
mical products and preparations .			机械加	-		-	-	1367	69	64
ton manufactures :		PHO CONT		X4-18			400	(BA.)		
Twist and yarn					bet-	SERVE	41177			3,83
Piece goods, grey white					-		-	100		15,09
coloured .	0.0					100000	10%	HARD CO		5.55
Other goods	H		- T		- 14	STITLE		772		4,80
s, medicines, and narcotics .	-					_		-	84	61 79
ing and tanning materials	-			-19	The second			N	61	91
and glassware			# //		COLUMN TO THE		1.0	-	83	93
dware and cutlery	-	-	- A-1-		-	M-1	-		1,76	1,80
ds:	10.00			SEA SE						4-7
Copper	Marie II	T.		9. <del>5</del> .9	- 11	T		-	90	2,20
iron and steel			1	820		-	1	NR S	68	1,10
Silver		SE CO							6,63	7,16
Other metals		E		SES	199			1000	28	34
Petroleum · · ·	100		2,57	3,76	3-77	4,67	27120233000	4:44	1,30	86
and colours	10-4	lat -		51,0	377	4,07	4,65	1017	3,58	11,31
The state of the s	3	-	-	3 - Y	_	-	_	-	55	42 62
sions • • •		-	-		-	2-1			1,24	1,98
raw and manufactured		-	200	-	-	-	-	-	2,68	2,86
s • • • • • • • • • • • • • • • • • • •	W T 17	-		5	-	-		-	1,08	78
onery				N-11	The	-	-	) <del>-</del>	34	35
2 M (2011) Man (2011)	45.5	The second	1000		N 40 m	1000	-		3,08	5.33
prellas .			=		E STEEL	12.5 GH			42	34
d and timber		0.00			NVIII E				72	58
ollen goods	1		<b>X</b>	<u> </u>		100			28	34
orts by post									93	86
other articles	1	I	1	1	1	1	1	1	4,67	34 5,68
TOTAL .	11,90	70.07	16,76	17,89	19,60		100		The state of	
	11,90	13,37	10,70	17,09	19,00	19,96	20,75	19,50	51,62	97,34
EXPORTS (GROSS REVENUE).						F		1000		1 TA
and rice-flour	19,27	19,33	15.97	21,77	24,76	23,26	16,01	20,83	23,21	22,67
TOTAL GROSS REVENUE .	31,17	32,70	32,73	39,66	44,36	43,22	36,76	40,39	74,83	
TOTAL NET REVENUE	30,44	31,74	31,84	38,60	43:31	41,84		PS Troving Cont	Territoria de la constantina della constantina d	1,20,01
	3-77	3.114	3.,04	30,00	43131	41,04	35-74	38,97	72,94	1,17,18
pincial distribution of Net Customs Revenue.						E u				
¢ Import	2.52	TEN I	May	302.0				1		
Bengal Export .	3,37	,2,92	4,71	5.35	5,54	5,92	6,80	5,46	12,44	33,10
(Import .	A COLUMN	2,96	4,66	3,57	4,13	3,63	3,21	3.95	3,53	4,71
Bombay Export .	3,24	3,67	4,87	4,96	6,21	6,44	6,16	6,85	25,33	37,61
	41	52	47	72	54	36	50	58	73	80
Sindh {Import .	1,19	1,40	1,40	1,65	1,77	1,71	1,60	1,74	3,36	5,69
	27	21	17	21	28	22	23	16	20	20
Madras . SImport .	1,50	2,24	2,68	2,43	3,30	2,81	2,68	2,66	5,34	10,25
manufas	The second second	1,25	1,24	1,61	1,12	99	99	1,10	1,88	INCOME OF STREET
(Export .	1,31	1,23	*344			99	39	(100) (September 1	2,00	1,41
Burma [Import	2,39	2,72	2,77 8,87	2,89	2,36 18,06	2,46	2,93	2,17	3,88	8,32

NANCE AND COMMERCE DEPARTMENT

Calcutta, 1st August, 1895.

#### GOVERNMENT OF INDIA.

### DEPARTMENT OF REVENUE AND AGRICULTURE.

# Weather Review of India for the Week ending at 8 a.m. on Saturday, July 27th, 1895.

During the past week the weather has been showery throughout almost the whole country. Pressure has been highest in the extreme south and lowest in the Punjab with, on some days, a slight depression over Bengal, while the pressure differences over India have been rather larger than usual. Monsoon winds have prevailed all over the country, except perhaps over the Gangetic plain, where the normal south-easterly current from the Bay was less developed than is ordinarily the case. On the West Coast, and more particularly on the Kathiawar, Sind, and North Konkan Coasts, the monsoon has blown very strongly, and at times at the head of the Bay the force has been above the average, but elsewhere the wind has had less than its normal force. The mean temperature has been generally slightly above the average—more particularly on the last two days of the week, when, owing to the rainfall ceasing altogether over Sind, Rajputana, and the Punjab, the mean temperature became very excessive over those provinces, and raised the general average of the whole country. The day temperatures over the Central and Southern Punjab and Rajputana reported on the 27th were exceedingly high.

Daily Summary.—Sunday.—The barometer had risen over Southern and fallen over Northern India. In consequence gradients had suddenly increased, and the pressure difference had risen to 0.476 inch. The wind was southerly in Burma and the Indus Valley, south-west to south-east in Bengal, south-easterly to easterly in the north of the Punjab and on the hills, and south-westerly to westerly elsewhere. The directions were hence abnormally westerly over the Gangetic plain, and southerly in the Indus Valley, but were fairly normal elsewhere. The mean temperature was excessive in the extreme north-west, and about normal elsewhere. Rain had been general over North-Eastern India, Central India, and the west of the Peninsula, and showers had occurred elsewhere.

Monday.—Pressure had decreased almost everywhere—more in the north than in the south—and the pressure difference had mounted to o'61 inch. The winds were little changed in direction, and there had been no increase of easterly winds in the Gangetic plain. The force was strong on both sides of India. The mean temperature was still excessive in the extreme north-west, and nearly normal elsewhere. Rain had extended somewhat up the Gangetic plain, and had become heavier in North Bengal, while, on the contrary, it had fallen lighter on the West Coast.

Tuesday.—The pressure changes were irregular, but on the whole downward, and the pressure difference between Southern and Northern India was 0.592 inch. A shallow low pressure area was shown over Bengal and Bihar. The winds were still abnormally westerly and south-westerly in Northern India, but blew from about the usual quarters elsewhere. The force was fresh to strong along the west coast of India. The mean temperature had fallen very generally, though it still remained excessive in Sind and Rajputana. Over North-Western India only scattered rainfall had been received, but in other parts of the country the fall had been fairly general.

Wednesday.—Pressure had increased over Western and decreased over Eastern India. In the Punjab the rise had been brisk to rapid, and as a consequence the area of lowest pressure had been transferred southward, and lay over Upper Sind instead of over the Western Punjab. In other respects conditions were little changed, and the pressure difference amounted to 0.474 inch. The winds were light and variable over the Gangetic plain and the Punjab, but blew from the normal directions elsewhere. The force was high on the coasts of the Bombay Presidency. The mean temperature had generally decreased, and was low over Northern India and Madras. General rain had fallen over North-Eastern India, and showery weather in most other parts of the country, but in Sind, Rajputana, and South Madras there had been no rain.

Thursday.—The barometer had risen, except in Lower Burma, but the general distribution was not much changed, though the pressure difference between Ceylon and Northern India had decreased to 0.453 inch. The winds remained light and irregular over the Gangetic plain and the Punjab, and were feebly cyclonic in Bengal, but elsewhere the directions were fairly normal. The mean temperature had increased slightly. Little or no rain had fallen over the Punjab, the Hills, the Bombay Deccan, Gujarat, Sind, Rajputana, and Madras. Elsewhere it has fallen generally, though lightly.

Friday.—Pressure had generally increased in the north, and decreased in the centre and south. The pressure difference between Ceylon and the Punjab had hence again decreased, and amounted to 0'447 inch. The winds were little changed generally, but some instances of south-east winds were shown over the Gangetic plain. The mean temperature was generally above the normal, except in the North-Western Provinces and Madras. In the Punjab, Sind, and Rajputana the excess was large. The rainfall had again been light, and the distribution had been rather irregular.

Saturday.—Pressure had decreased over the greater part of the Indian region, the fall in most places being brisk to rapid. The distribution of pressure was almost normal, and the winds were normal, except over the Gangetic plain, where the south-east current from the Bay was still undeveloped. The mean temperature continued excessive in nearly all places, but especially so in the north-west. The rainfall had been very heavy at Nagpur, and moderately heavy at several of the more central stations, but was again very light over a large part of North-Western and Northern India.

Temperature.—The mean temperature, though less excessive than on several days of last week, has yet been, for the whole of India, above the normal average on most days of the week. The general excess amounted to about 1° on the 21st and 22nd and to about 1° on the 26th and 27th, while on the three intervening days the mean was nearly normal. The following table gives the variations of the mean temperature from the normal in the different provinces of India for each day of the week:

Province.				JULY 1895		The state of		Mean	
PROVINCE.	21st	aand	23rd	24th	25 th	26th	27th	variation of week.	
	0	0	0	o	0	0	0	*0	
Burma	+1.4	+0.4	-1'0 -2'4	0	+0.0	+1.6	+ 1.7	+0.4	
Oudh	+3.6	+0.7	+1.3	-2·4 -2·2	+1.0	+4.6	+6.8	-0°3	
Bombay Central Provinces and Berar Central India and Gujarat	-0'5 -0'5 +0'2	+0.1	+0.4	+0.5	+0.6	+0.4	-1.0 +1.0	-0.1 +0.0	
Sind and Rajputana	+3.6	+3.0	+3.3	+2.3	+5.0	-0.8 +4.6 +0.0	+4.6	+3.7	
Mean for whole of India .	+1.0	+ 0.0	-0.1	-0.6	+0.4	+1.3	+ 1.7	+0.6	

The mean temperature of the whole country for the whole week was \( \frac{1}{3} \) above the average. The provincial variations showed a mean excess of 3.7° for Sind and Rajputana and of 2.5° for the Punjab, but elsewhere the variations were small and unimportant. The following are the highest recorded maxima on each day of the week. They were all recorded in the extreme north-west, and were in each case largely above the average:

On July		est max	imum reported was	113.20	at	Jacobabad.
11	22nd	29	11	* 111.80	11	THE RESIDENCE OF THE PARTY OF T
"	23rd	11	-11	112.10	11	,,
11	24th	91	n	109.30	1)	
"	25th 26th	11	31	107'10		Dera Ismail Khan.
,"	20th	37	"	110.30		Jacobabad.
11	-/	"	+ 11	112.2	. 11	,

Rainfall.—As was shown in the previous sections, there has been no cyclonic storm to affect the rainfall during the past week, and the weather has been determined by the existence of steady normal monsoon conditions. As a consequence the reports have exhibited more or less general moderate rain without any of those heavy downpours which characterise the weather during the existence of cyclonic storms. The region of least steady rainfall was the north-west, where, except under exceptional conditions, the monsoon rainfall is normally lighter and more precarious than that of other parts of India. The table at the close of the summary shows the rainfall data. During the week ending on July 27th rain fell in all the rainfall divisions, except Sind, the average actual rainfall received ranging from 13:88 inches in Tenasserim to 0:28 inch in Madras (Central). In normal years the rainfall for the week under review ranges from 10.68 inches in Tenasserim to 0'29 inch in Madras (South), so that as regards general distribution the actual and normal rainfall agree fairly closely. As regards details, however, considerable differences in the distribution are shown. The third column of the table exhibits these differences. In the case of twenty-two divisions the actual rainfall has been in excess of the normal, while in twenty-nine it has been in defect. This is an improvement as compared with last week, when in only seventeen divisions was any excess recorded. The regions which received an excess during the week under review include the following divisions: Tenasserim; Lower Burma; Arakan; East, Central, and North Bengal; the Surma division of Assam, Chota Nagpur, and both the Bihar divisions; both the Oudh divisions; the east and submontane divisions of the North-Western Provinces; Khandesh; Berar; the north, north (a), central and south divisions of the East Coast; Hyderabad (South); and the south division of Madras. All other parts of the country received less rain than usual. The most marked instances of excess were 31 inches in Tenasserim and the North-Western Provinces (East), and over 2 inches in Bihar (North and South), Oudh (South), and the East Coast (North (a)), while the most marked cases of defect were 3.95 inches in Coorg, 3.05 inches in the hill districts of the Punjab, and 1.89 inches in the Konkan. The comparative absence of rainfall over the Gangetic plain and the Punjab appears to have been due to the absence of the normal south-east current from the Bay over that region, the lightness of the rainfall over the Central Provinces, Rajputana, and the North of Bombay to the existence of abnormally high pressures over that district, and the scanty rainfall over the west of the Peninsula to a somewhat feeble monsoon over the centre of the Arabian Sea.

The returns of the sudder stations show that rain fell practically on all days of the week over Tenasserim, Lower Burma, Central Burma, Arakan, Assam, Bengal, the North-Western Provinces, Malabar, Coorg, the Konkan, the Deccan, Khandesh, the central parts of the country, and Ganjam; principally on the 22nd, 23rd, and 24th in the Punjab, on the 21st, 22nd, and 23rd in Mysore; from the 21st to the 25th in Gujarat and Kathiawar; and on the 21st, 22nd, and 23rd in Madras.

The three concluding columns of the table show the state of the seasonal rainfall. In the majority of cases the actual seasonal rainfall exhibits departures of less than 20 per cent. from the average, and in these cases the rainfall may be regarded as fairly normal. Deficiencies exceeding 20 per cent. are reported from Arakan, East Bengal, Deltaic Bengal, Central Bengal, the Central Punjab, the submontane division of the Punjab, Mysore, Berar, Gujarat, Sind, Central India, Rajputana, and South Madras. The principal cases of excess are shown by Ganjam and Orissa.

The following are the more important total falls recorded during the week ending on the 27th: Amherst (Tenasserim) 13:88 inches, Maubin 11:27 inches, Akyab 16:15 inches, Chittagong 12:74 inches, Cherrapunji 26:48 inches, Thakurgaon (Dinajpur) 12:59 inches, Buxar 11:64 inches, Kandipur (Sultanpur) 16:79 inches, Jagraon (Ludhiana) 4:77 inches, Dharmsala 11:95 inches, Beltangady (Mangatore) 9:83 inches, Bavda (Satara) 14:36 inches, Marwara (Jubbulpur) 25:47 inches, Kazole (Godaveri) 7:12 inches.

		RAINFALL D	ATA FOR WEEK LY 27TH, 1895.	ENDING	RAINFALL D	CLV 27TH, 189	s and to
PROVINCE.	DIVISION.	Average actual rainfall of division.	Average normal rainfall of division,	Excess or defect in inches.	Average actual rainfall of season to date.	Average nor- mal rainfall, June 2nd to July 27th.	Excess or & fect of (statement) tals fall express as a percentage.
			Inches.	Inches.	Inches.	Inches.	Per cent
Burma · · · {	Tenasserim Lower Burma Central Burma Upper Burma Arakan	13:88 6:27 2:80 0:67 11:70	10'68 5'04 2'87 7	+ 1.38 + 1.38	68'19 34'83 17'11 10'66 52'77	81°03 38°90 20°69 7 94°18	- 18 - 19 - 19 - 4
BENGAL AND ASSAM	East Bengal Assam (Surma) Do. (Brahmaputra) Deltaic Bengal Central Bengal North Bengal Orissa Chota Nagpur Bihar (South) Do. (North)	5.06 6.88 3.56 2.07 2.87 5.37 3.10 3.40 5.42 4.79	4'09 6'47 3'71 2'94 2'53 4'11 3'14 3'31 3'03 2'64	+ 0°97 + 0°41 - 0°15 - 0°87 + 0°34 + 1°26 - 0°04 + 0°09 + 2°39 + 2°15	20°22 14°64	35.61 63.96 29.07 20.58 20.34 43.32 20.12 19.49 16.06	+ + + + -
North-Western Provinces and	North-Western Provinces (East Do. (Submontane) (a) Oudh (South) . Do. (North) . North-Western Provinces	5'33 3'75	2'96 3'12 2'66 2'68 2'83	+ 1.07	10.47	15.72	7 + +
OUDH.	(Central). North-Western Provinces	1'59	2.25	- 096	9.84	10,8	5 -
	(West). North-Western Provinces (Submontane). (b)	2 39	3'32	- 0.03	17.86	17:6	+
Punjab	Punjab (South) Do. (Central) Do. (Submontane) Do. (Hill Districts) Do. (North-West) Do. (West)	. 0'95 1'97 1'38 3'97 0'46	6.13	- 1.0 - 3.0 - 0.0 - 0.0	6 8.3 5 25.3 5 5.4	5 5 5 1 10°5 3 29°6 4 6°6	1 8 8 - 96 –
BOMBAY AND MALA- BAR COAST DIS- TRICTS (MADRAS).	Malabar Madras (South Central) Coorg Mysore Konkan Bombay Deccan Hyderabad (North) Khandesh	. 4.28 1.01 5.64 0.96 . 5.55 1.11	1°1; 9°5 1°6 4 7°4 1°4	5 - 0°1 9 - 3°9 4 - 0°7 3 - 0°3 6 - 0°3	4 9'8 51'8 51'8 8'8 59 57'7 34 11'9	0 100 2 63: 4 11: 8 66: 11:	07 28 41 38
Central Provinces	Berar Central Provinces (West) Ditto (Central) Ditto (East)	. 1.7 2.5 4.0 3.8	4 2.8	4 - 0	30 16 6 43 21 3	8 18 24	78 -
Bombay (North) .	Gujarat	3.8		00 - 1.	10 90	96 11	
Rajputana and Cen- tral India.	India (West).	ral 10	17 24	00 - 0	03 7	42 13	51 =
Madras	Rajputana (West)	. 178 . 572 . 273 . 073	34 17 25 27 27 07 28 07 34 07	21 + 0 99 + 2 99 + 1	763 14. 726 22. 728 7. 741 5. 727 7. 755 4.	87 10 62 24 99 8 21 5 06 6	235 + 43 - 67 - 76 - 754 - 794 - 94

W. L. DALLAS,

Asst. Meteorological Reporter to the Government of Int

DENZIL IBBETSON,

Offg. Secretary to the Government of la

SIMLA, 1st August 1895.

#### GOVERNMENT OF INDIA.

### DEPARTMENT OF REVENUE AND AGRICULTURE.

# Weekly Report on the state of the Season and Prospects of the Crops.

Madras.—For week ending 27th July.—Rainfall good in the Circars, on the West Coast and Nilgiris, and in parts of the Carnatic and Central districts; light rain elsewhere. Agricultural operations are progressing. The standing crops are generally fair, but more rain is needed in parts of the Carnatic, Central and Southern districts. Pasture is improving, and fodder is available. The condition of cattle is generally good. Prices are slightly easier in the Circars; have risen in parts of the Central and Southern districts, but are stationary elsewhere.

Bombay.—For week ending 31st July.—Rain generally sufficient in the Konkan and Gujarat; moderate or slight elsewhere. More rain is wanted urgently in Sind and in parts of the Deccan and Carnatic. The river continues low in Sind, agricultural operations are generally suspended, and the crops are suffering owing to deficiency of water. Sowings of the early crops are progressing in eleven districts, but are retarded in parts of Ahmednagar owing to excessive moisture. Transplantation is progressing in four districts, but is retarded in parts of two owing to insufficient moisture. Preparations for the late crops are progressing in parts of five districts. Fodder is sufficient, and agricultural stock are in good condition, except in parts of Sind and Broach. Prices are normal, except in two districts of Sind and three of the Deccan.

Bengal.—For week ending 29th July.—There was sufficient rain throughout the Province during the week, except in the Burdwan and Presidency divisions, where the rainfall is still scanty, and is causing some apprehension. Except in those two divisions, the cultivation of the winter rice crop is progressing favourably, and the prospects of the early rice and jute crops and of other autumn crops and also of sugarcane are satisfactory. In parts of North and East Bengal early rice and jute are being harvested. The price of common rice continues steady.

North-Western Provinces and Oudh.—For week ending 31st July.—Rain has been general during the week, and in most districts the fall was heavy. The autumn crops are flourishing, and agricultural prospects have generally been improved by the rainfall. The sugarcane crop has been damaged by insects in one tahsil of Farukhabad, and the rice crop has slightly suffered from drought in Lalitpur, Jhansi district. Supplies are sufficient, and prices fairly steady, but have fallen in a few districts.

Punjab.—For week ending 31st July.—Rain has fallen in all districts, except in Multan and Peshawar. The autumn sowings are in progress in Delhi and Lahore, but rain is wanted in Hissar, Amritsar, Lahore, Shahpur, and Multan. The rainfall has benefited the crops in Hissar and Umballa. The condition of the standing autumn crops is good to fair in Lahore, Amritsar, Dera Ismail Khan, Peshawar, and Multan. The crop prospects are average in

Rawal Pindi. The river is very low in Dera Ismail Khan. The autumn crops are being damaged, and fodder is drying up in Jullundur for want of rain. Cattle are generally in good condition, and fodder is sufficient in all districts, except in parts of Lahore. Prices are high in Umballa, rising in Jullundur and Peshawar, approaching normal in Sialkot, and low elsewhere.

Central Provinces.—For week ending 31st July.—Weather cloudy and cool. Rain has been general with very heavy falls in Nagpur and Saugor; more rain is required in the rice districts of Raipur and Seoni. The breaks during the month have been suitable for weeding operations, and prospects are favourable. Prices are steady.

Burma.—For week ending 27th July.—In Lower Burma ploughing and sowing have been completed in Akyab; elsewhere ploughing, sowing, and transplanting are in progress. In Upper Burma reaping of the early wet-weather paddy continues in Mandalay and Kyaukse. There is a general complaint of want of rain in the districts of Mandalay, Shwebo, Sagaing, Lower Chindwin, Thayetmyo, Pakokku, Minbu, Magwe, Meiktila, Yamethin, and Myingyan. Ploughing and sowing are retarded, and nurseries where sown are withering. The standing crops of sesamum and cotton are also withering, and the want of rain is now becoming serious. In Kyaukse the nurseries at the tail of canals are withering; in other districts the crop prospects are good. The price of paddy has fallen considerably in Thayetmyo, and slightly in Upper Chindwin; elsewhere prices are stationary.

Assam.—For week ending 30th July.—Weather seasonable. Late rice seedlings have been damaged by floods in Kamrup and Sibsagar. Tea is doing well. The condition of cattle is fair. Fodder is abundant, except in Kamrup. Water is sufficient.

Mysore and Coorg.—For week ending 31st July.—MYSORE: Rainfall good in the Bangalore, Kadur, and Shimoga districts; slight rain elsewhere. The standing crops are in good condition. Sowing operations continue. Prospects of the season are generally good. Prices have fallen in Kadur and Chitaldroog.

COORG: Rainfall good. Transplanting of rice continues. Prospects of ragi (Eleusine coracana), coffee, and cardamom are fair. Water and fodder for cattle are abundant. Prices are normal.

Berar and Hyderabad.—For week ending 31st July.—BERAR: Weather cool and cloudy with occasional light showers. The crops are in good condition. Land is being prepared for the next winter crop. Sowings are nearing completion. Weeding operations are in progress. Fodder and water are sufficient. Prices are almost stationary.

HYDERABAD: Rainfall good during the week. Sowing of the autumn crops is progressing generally, and of the irrigated crops in Warangal only. The water-supply is sufficient. Prices are normal.

Central India.—For week ending 31st July.—Rainfall general, but the fall is still insufficient in Baghelkhand and in some districts of Gwalior. Agricultural operations are in progress in all Agencies. The crops are in good

condition, but some damage has been done in parts of Gwalior, and to the cotton crops in Bhopawar. Cattle are in good condition, except in parts of Gwalior and Bhopal. Pasturage is fairly good in all Agencies. Prices of food-grains are rising in three districts of Gwalior and in the Baghelkhand Agency, high in Bhopal and Goona, but normal elsewhere.

Rajputana.—For week ending 31st July.—Rainfall good in eight States, slight in seven others, no rain in Marwar. More rain is much needed in Meywar, Marwar, Deoli, Ajmere, Tonk, and Dholepore. Agricultural operations are generally satisfactory. Pasturage and fodder are generally sufficient. Prices have risen in seven States, fallen in one, high and fluctuating in another, but steady elsewhere.

Kashmir.—For week ending 30th July.—KASHMIR VALLEY: Weather fine. No rain. Prices continue normal.

JAMMU PROVINCE.—For week ending 31st July.—Rainfall slight. Weather still cloudy. The autumn crops have been slightly injured by the early rains. Cattle in good condition. Prices are rising.

Nepal.—For week ending 27th July.—Heavy showers have fallen during the week. The Indian-corn crop is being gathered. The outturn is good,

DENZIL IBBETSON,

Offg. Secretary to the Government of India.

DEPARTMENT OF REVEN

STAT

IMPORTS OF COTTON, WH

Statement showing in maunds the imports of Cotton, Wheat, Linseed, and Indigo by rail and river into Calconnation compared with the correspondent

Control of	Action 1				1	MPORTS IN	MAY.		CASE OF ST		
Articles, and whence exported.		Calcutta.		Bor	nbay Town			Karachi.			TOTAL.
	1893.	1894.	1895.	1893.	1894.	1895.	1893.	1894.	1895.	1893.	1894.
1	2	3	4	5	6	7	8	9	10	II	12
<b>美国的</b>	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
OTTON, RAW-	3 (1)						E-ICON	清學習	Kristin (En		
Madras	1,		***	19,259	7,812	16,753				644,550	7,812 501,238
Bombay				644,550	501,238	689,079	21,492	54,900	66,057	21,492	54,006
Rengal	12,440	11,512	14,560	D-949	W. ***	***		***		12,440	11,512
NW. P. & O	1,728	32,692	38,437 16,288	4,212	9,652	15,204	8,358	16,765	31,933	9,085	42,344 32,641
Punjab	287	260	110	4,625	10,425	10,193	***	***	411	4,012	10,685
Berar	567	767	2,254	173,721	83,802	77,756		•••	10000	2,987	84,569 2,349
Assum Raj, & C. I.	2,987	2,349 12,817	5,830	19,158	93,808	153,044	***		***	20,694	106,625
Nizam's lerr	10000	***	***	19	2,774	2,910	***		***	19	2,774
Mysore	***	***	.,,	132		***			45"	132	1.00
TOTAL .	20,272	71,854	81,651	863,676	713,930	985,231	29,850	71,671	97,990	915,798	857,455
HEAT-								POST CONTRACTOR			
Madras	1000				32			***	***	411	32
Bombay .		***		274,293	176,847	335,152	****	7000	***	274,293	176,847
Sind	165,515	46,582	162,121	***	1	- St. Sen.	123,691	144,514	366,022	165,515	144,614
Bengal NW. P. & O.	559,948	352,006	486,051	90,322	3,558	230,066			****	650,270	355,504
Punjab	9,232	15,248	9,605	13,800	40,822	104,716	53,563	366,906	1,142,996	76,395	428,970
Cent. Provs	35,652	445	8,588	1,273,417	10,287	429,699 31,947	***		***	1,309,069	312,920
Berar	111		***	OF		340	***		THE REAL PROPERTY.		The State of the S
Raj & C. I	337	***		374,245 611	81,831	189,311	***		***	374,582	81,831
Nizam's Terr		***				799		***			***
TOTAL .	770,684	414,281	666,365	2,037,877	631,852	1,321,590	177,254	511,520	1,500,018	2,985,815	1,557,653
		Ship (Signature)	-			1,371	1774534	311,320		-19031003	10371-33
INSEED-	1			16			STORY OF STREET				
Madras	100		27.5	5,620 127,355	5,820 236,201	7,430				197,355	236,20
Sind		(446)	Williams -	***					1	100 Sept 100	
Bengal NW. P. & O.	842,333 531,167	628,438 555,009	513,976 319,688	46,087	02 000	110 106			2,328	842,333	628,45
Punjab	2000	No. of the last of the	WITH THE REAL PROPERTY.	914	98,279	621	***	5,954	7,712	577,254	653,28
Cent. Provs	49,770	25,170	13,964	348,351	201,328	78,553	- 1			308,121	226,49
Berar	400	3,740	901	86,985	126,441	89,200	- :::			86,985	126,08
Raj. & C. 1	17,172	14,229	56	328,333	568,428	84,832	1			345,505	582,65
Nizam's Terr		""	- Sept. 18	37,417	64,366	62,968	- 66-	***		37,417	64,26
Mysore				7	02			-	***	65	6.
TOTAL .	1,440,842	1,226,853	848,585	980,213	1,302,020	560,170		5,054	10,040	2,421,055	2,533,92
NDIGO-	- NO.							12 13 H	SILV		A ROBBIN
Madras		***	***	2	172	180	***	ne.	***	2	17
Bombay	1 7.	-	- 5 - 1	19	22	20	435	1	,	19	2
	ef.	1 (44)	28	-	***	22	435	517	284	1 35	51
NW. P. & O	***	60	***	***	51		1				11
Punjab		***	- T	1	8		215	449	249	215	. 44
Berar	-	***		Shill way	""	011444708	1		300	***	
Assam	1000	***	***	***	Visit	***	***				445
Nizam's Terr.					11	10	30	***			
Mysore	***										-972
TOTAL .	56	60	28	JESS VIII	NO SECTION	A STATE OF	No. of Concession,	Sulvering	STATE OF THE PARTY.	1	000

DIA. AGRICULTURE.

ED, AND INDIGO.

Town and Karachi, during the month of May 1895, and from 1st January 1895 to 31st May 1895, of the years 1893 and 1894.

	Cauca Spirit		IMPORTS FI	ROM JANUA	RY TO MA	Y, INCLUSIV	VE.				
Calcutta.		В	ombay Tow	n.		Karachi.			TOTAL,		Articles, and whence exported.
1894.	1895.	1893.	1894.	1895.	1893.	1894.	1895.	1893.	1894.	1895.	
15	16	17	18	19	20	21	22	23	24	25	26
Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	COTTON PAN
39,422 347,580 52,530 8,044 4,801 22,315 36,319	42,878 218,715 60,482 6,377 17,218 15,507 30,002	19,734 2,515,743 19 194,023 60,225 76,963 847,670 535,250 1,384 606	10,356 2,408,725  241,035 66,117 114,312 970,718  656,809 3,477 40	20,287 2,182,817  175,784 60,683 111,329 811,954 712,138 4,895 78	117,638	302,098	237,448 ::: 143,409 :::	19,734 2,515,743 117,638 61,899 315,825 274,249 81,137 849,543 28,632 545,389 1,384 666	10,336 2,408,967 302,098 30,422 588,612 280,000 122,335 975,519 22,315 693,218 3,477 40	20,287 2,182,817 237,448 42,878 304,499 264,574 117,700 829,172 15,507 742,140 4,805 78	COTTON, RAW- Madras, Bombay, Sind, Bengal, N-W-P, & O. Punjab, Cent, Provs. Berar, Assam, Raj, & C. I. Nizam's Terr. Mysore.
511,253	391,179	4,251,617	4,471,679	4,079,965	292,221	463,451	380,857	4,811,779	5,446,383	4,852,001	TOTAL.
125,412 811,511 203,371 28,242 	264,729 1,106,902 121,795 26,002 64	1,364,592  207,655 26,050 2,771,570 36,183  8e2,576 2,286 	122 643,742  4,676 233,919 990,719 26,619 	140 901,345  236,463 300,880 669,788 50,543  265,259 816 	357,209  95,488 	781,764 1,973,787	366,022  1,143,078 	1,364,592 357,209 323,586 1,448,578 131,985 2,896,979 36,183  S04,769 2,286 	122 643,742 781,764 126,412 8:6,187 2,411,077 1,018,961 26,619 328,516	140 901,345 306,022 264,729 1,343,565 1,565,753 695,790 50,607 265,259 816	WHEAT—  Madras, Bombay. Sind. Bengal. NW. P. & O. Punjab. Cent. Provs. Berar. Assam. Raj. & C. I. Nizam's Terr. Mysore.
1,169,536	1,519,492	5,210,912	2,228,313	2,425,234	452,697	2,755,551	1,509,100	7,366,167	6,153,400	5,453,826	TOTAL.
1,906,584 1,072,705 686 338,265 10,997 8,237 110,712	1,073,266 430,943 36,646  4,964 4,517	54,041 925,503  160,271 115 1,398,751 714,694  743,592 308,847 83	05,587 1,476,040  267,173 1,195 1,059,915 1,214,289 1,288,403 508,310 274	74,321 1,362,039  35,531 621 376,227 553,344 169,793 453,988 566	12	5,665	2,328 7,794	54,041 925,563  2,140,086 1,151,709 127 1,500,025 714,694 2,122 800,862 308,847 83	95,587 1,476,440 550 1,906,584 1,339,878 7,546 1,388,180 1,225,216 8,237 1,399,115 508,310 274	74,321 1,362,039  4,073,266 474,802 8,415 412,873 553,344 4,964 174,310 453,988 566	Madras, Bombay, Sind. Bengal, NW. P. & O. Punjab, Cent. Provs. Berar, Assam. Raj. & C. I. Nizam's Terr. Mysore.
3,438,116	1,556,336	4,305,897	5,911,186	3,026,400	12	6,215	10,122	7,599,059	9,355,517	4,598,858	TOTAL.
6,574 3,204 248	21,853 7,177 1,942  24	685 387 23  141 3 2  571	943 410  192 1 18  651	723 427  4 2 6     555 14	5,250  1,989	2,761	2,867  3,478 	685 387 5,271 6,246 690 1,992 7 	943 410 2,761 6,574 3,396 2,289 18 	723 427 2,867 21,857 7,179 5,426 	INDIGO—  Madras. Bombay. Sind. Bengal. NW. P. & O. Punjab. Cent. Provs. Berar. Assam. Raj. & C. I. Nizam's Terr. Mysore.
10,026	30,996	1,810	2,195	1,531	7,239	4,801	6,345	15,849	17,022	38,872	TOTAL.

J. E. O'CONOR, Director General of Statistics.

DENZIL IBBETSON,

Offg. Secretary to the Government of India.

## GOVERNMENT OF INDIA. PUBLIC WORKS DEPARTMENT. RAILWAY STATISTICS.

STATEMENT OF APPROXIMATE GROSS EARNINGS OF INDIAN RAILWAYS FROM 1ST TO 21ST JULY 18/15,

AND FROM 1ST TO 20TH JULY 1895.

N.B.—As regards the figures in column Total Earnings from 1st July 1895, audited figures have been used as far as possible.

N.B.—As regards the figures	Average	WEEK I	INDING 211 LY 1894.	ST	W		NDING 20 Y 1895.	тн	Eart		Earnings from 1st		
	per mile		Earning	5.			Earning	ATT THE RESERVE	to a	ist	to 20th July	Increase.	Decrea
RAILWAY.		Mean nileage vorked.	Total.	open per	Mea milea work	ige .	Total.	Per mile open per	1 .0	1y 94.	1895.		7/4
	- 0	Miles.	Rs.	Rs.	Mil	les.	Rs.	Rs.		Rs.	Rs.	Rs.	Rz,
State lines worked by companies.  Standard gauge—	Rs.	1,683	8,49,313	505	1	710	8,89,257	520	26,2	5,859	25,89,809		35,
East Indian Bengal-Nagpur Indian Midland (a)	556 109 132 198	862 752 21	73,307 83,040 3,278	85 111 150		862 752 21	70,000 73,509 3,192	98 152	2,5	8,720	2,00,543 9,042	327	55,
Metre gauge	236	1,719	3,43,508	, 200	1,	790	3,55,320	100	8 (7)	1,335	1,960	625	1,00,
Rajputana-Maiwa (b) Palanpur-Doesa	37 154	1,042	1,55,687	140	1,	042	1,75,841 5,361	100	4,5	8,852	5,16,027	3,543	
South Indian Mayavaram-Mutupet	82	54 1,165	93,480	W 2	0 1	,165	1,31,459 \$8,560	SECOND.	3,	23,023	3,59,810	36,187	i
Southern Manratta (c)	121	750	91,470	12		750	11,036	100		36,486	33,169		1
Robitkund and Kumacn (Lucknow- Bareilly section)	87	200	11,702	5	-	200	THE RESERVE		-	76,444	52,85,801		10
· Torat · ·	. 73?	8,271	17,69,751	20	7 8	3,369	18,04,230				3-7-37-19	3,000	9
State lines worked by the State.  Standard gauge- North Western (state) (e) Oudl and Rohilkhand (state)	242 238	2,507	6,67,420	26		797	6,62,822	26	5	65,223	21,24,435 5,18,905	-	4
Eastern Bengal (state) (including metre and z' 6" gauges)	382	813	1,07,849			813	1,75,13			49,164	5,07,480	2,55	
Bangal Central (f)	90	125 321	13,908	THE RESIDENCE OF	54	397	28,09	57 W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4	61,371	88,284	26,91	10000
East Coast (state)	131	730	1,17,857	200	51	740	98,03	3 1;	31 3	,88,963	2,67,245		14
Barma (state)  Special gauges -	61	1000000	-1,592	0 +500	64	25	1,74	6	70	5,207	4,45	"	
Jorhat (state provincial) . Cherra-Companyganj (state pro		10000	440	-	55	8	A	3	5	1,287	42	5	
vincial)	-			-	-	5,423	11,59,61	5 2	14 35	,74,605	35,53,68	0	10 15
Lines worked by guaranteed com- panies.	233	3,320		1			3,5142	98 2	36 1	1,40,361	10,85,85		2
Standard gauge  Great Indian Peninsula (g)  Bombay, Baroda and Central India  Madras	34 53 23	461	1,68,44	SZ 3	182 365 117	1,400 461 840	2,03,9	13 2	53	5,85,684	6,97,00	4 29,3	
TOTAL .	. 34	2,79	7,70,80	4	276	2,791	7,67,6	-	Add to the	5,39,950		Contract Name	-
TOTAL (GUARANTEED AND STATE)	. 25	1 16,38	36,73,39	4	224	10,582	37,31,4	82	125	15,91,00	05 1,12,37,3	128	
Assisted companies.				4							- 0		325
Standard gauge- Delhi-Umballa-Kalka	15			500	148 256	161 22		465111014	215	17,08		97-	m
Metre gauge— Rohilkund and Kumaon (Company section) Bengal Dooars	14	8 3	5,2	92	109	. 66 36 75	4,	170	114	10,12 34,69	12,0	80 1,	958
Dibru-Sadiya	4	THE PERSON		98	143	100		1000	222	73,43		109	
Darjeeling-Himalayan	2	8 5	13,3		261	5	-	200	156	1,05,0	Contract of the last of the la	30	
Lines owned by native states as worked by other agencies.	ndt	57 41	5 66,5	79	160	41	4 64,	303					
Standard gauges The Nizam's guaranteed state The Gaekwar's Petlad Rajpura-Bhatinda Kolar Gold-fields	:	57 1	130 12-01	129 136	79 165 334	33	3 34	014 710 502 178	55 319 418	1,57,4 2,9 53,4 8,6	70 84,	520 518 1	,041 ,913
Metre gauge— Southern Mahratta (Mysore secti (h) The Gaelcwar's Mehsana		60	62 26y	184	72 45		2 4	387 800 766	87 52 61	84,2 13,9 0,0	13.	000	,561
Kolhapur Special gauge— The Guelcwar's Dabhoi		47	72 1,3	30g 586	59 25 27	7		710	38	6,6	34 7,	700	,066
Cooch Behar	ive	26 1,0			103	1,0	42 1,34	,257	129	3,35,2	3,72,	265 37	7,053
states.		Visi	HIST			7		200	18.5	Same?		17 - 1/ E	WEST.
Metre gange-     Bhávnagar-Gondal-Junágarh-Po- bandar     Jetalsar-Rájkot		61	46 2,	573	56 44		46	,380 ,335 ,000	52 51 44		324 0	,716	392
Jodhpur-Bickuneer				197	50	10000		1,196	45	10000000		.519	
Morvi		CALLED BOOK OF		011	53	-	-	THE REAL PROPERTY.	48	1,34,		Section Control	
TOTAL		63	338 43,	784	52	-		0.911	210	-	5,558 1,19,5	AND DESCRIPTION OF THE PERSON NAMED IN	100
GRAND, TOTAL .		234 18,6	183 38,91,	174	208	18,8	76 30.76	0,235			mir and th		STEP STA

(e) Includes the Jammu and Kashmir and the Hyderabad-Shadipa railways.

(f) Although for convenience classed amongst state railways, this is the property of the Bengal Central Railway Company.

(g) Includes the Wardha Coal, Dhond-Manmad, Khamgaon, as Amraoti railways.

(h) Includes the Mysore-Nanjangod and the Yesvantpur-Mysore frontier sections.

F. B. HEBBERT

# GOVERNMENT OF INDIA. PUBLIC WORKS DEPARTMENT. RAILWAY STATISTICS.

# No. XIV of 1895-96. STATEMENT OF APPROXIMATE GROSS EARNINGS OF INDIAN RAILWAYS.

N.B.—As regards the figures in column Total Earnings from 1st April 1895, audited figures have been used, as far as possible.

	Average	1000000	ULY 1894.	ısr		ULY 1895.	отн	Earnings	Earnings		
RAILWAY.	earnings per mile	2.	Earning	gs.	200	Earning	The state of the s	from 1st April to	from 1st April to	Increase.	Decrease.
RAILWAY.	per week in 1894-95-	Mean mileage worked.	Total.	Per mile open per week.	Mean mileage worked,	Total.	Per mile open per week	21st July 1894.	20th July 1895.		
lines worked by companies.	Rs.	Miles.	Rs.	Rs.	Miles.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
ndard gauge— ast Indian engal-Nagpur edian Midland(a) ezwida Extension	599 152 144 170	1,683 862 752 21	8,49,313 73,307 83,640 3,278	505 85 111 156	1,710 862 752 21	8,89,257 70,000 73,590 3,192	520 81 98 152	1,63,75,995 21,00,113 18,74,781 42,734	1,72,54,020 21,74,169 14,59,255 50,438	8,77,025 74,056 7,704	4,15,526
ire gauge— hajutana-Malwa (b) . silanpur-Deesa ooth Indian Mayavaram-Mutupet oothern Mahratta (d) .	279 44 154 75 105	1,719 17 1,042 54 1,165	3,43,508 456 1,55,682 3,883 93,486	200 27 149 72 80	1,790 17 1,042 54 1,165	3,55,320 610 1,75,841 5,361 1,31,459	199 36 169 99	87,16,039 12,151 26,24,187 (c) 62,329 22,59,109	83,44,223 13,998 29,00,616 83,223 23,28,938	1,847 2,76,429 20,894 69,849	3,71,816
engal and North-Western (e) chilkund and Kumaon (Lucknow-	146	756	91,476	121	750	88,560	117	20,37,211	19,18,046		1,19,165
Bareilly section)	259	8,271	17,09,751	207	8,369	18,04,226	216	3,63,91,959	3,67,81,863	3,89,904	3.1393
lines worked by the State.	1000									100000	
ndard gauge— forth Western (state) (f)	252 270	2,507 797	6,67,420 1,73,254	266 217	2,511 797	6,62,824	264 226	35,19,472	1,25,11,398 33,94,176	22,15,545	1,28,296
metre and 2' 6" gauges)	339 130 99	813 125 321	1,97,849 13,968 20,459	243 112 64	813 125 397	1,75,130 13,730 128,096	215 110 71	33,01,634 2,48,052 4,75,598	32,92,487 2,50,963 6,20,626	2,911 1,45,078	9,147
Jurma (state)	164	730	1,17,857	163	746	98,058	131	19,55,140	19,98,290	43,150	••
orhát (state provincial) herra-Companyganj (state pro-	55	25	1,592	64	25	1,746	70	21,900	24,793	2,893	
vincial)	64	8	11,92,839	.55	8	11,59,615	5	7,825	2,20,94,697	22,50,213	2,911
sworked by guaranteed com- panies.	243	5,326	11,92,039	224	5,422	17,59,015	214	1,90,25,474	4,20,94,097		
ndard gauge— Seat Indian Peninsula (h) . ombay, Baroda and Central India Iadras	442 678 243	1,490 461 840	4,19,849 1,68,448 1,82,507	282 365 217	1,490 461 840	5,51,728 2,03,000 2,12,013	236 440 253	1,21,73,629 59,48,200 32,30,992	1,04,59,192 69,28,099 34,98,576	9,79,899 2,67,584	17,14,437
TOTAL	421	2,791	7,70,804	276	2,791	7,67,641	273	2,13,52,821	≠,o8,85,867		4,66,954
AL (GUARANTEED AND STATE) .	281	16,388	35,73,394	224	16,582	37,31,482	225	7,75,70,754	7,97,62,427	21,92,173	
Assisted companies.								T NOS LINES	of accompany		re-hillyon
Delhi-Umballa-Kalka arkessur tre gauge— Rohilkund and Kumaon (Com-	165 269	161 22	23,878 5,631	14° 256	t61 22	26,836 4,740	167 215	4,53,242 1,10,060	4,70,730 1,06,174	17,488	3,886
pany's section)	121 161 136	67 36 78	* 7,289 5,292 11,175	109 147 143	66 36 78	7,492 4,370 9,809	114- 121 126	1,58,448 47,099 1,64,959	1,56,112 59,954 1,72,315	12,855 7,356	2,336
Darjeeling-Himalayan	249	51	13,314	261	51	11,318	222	2,08,495	2,58,721	50,226	***
TOTAL	164	415	66,579	160	414	64,585	156	11,42,303	12,24,006	81,703	
ndard gauge— the Nizam's guaranteed state he Gaekwar's Petlad spurs-Bhātīnda colar Gold-fields tre gauge—	187 105 271 260	333 13 108 10	50,739 1,021 17,829 3,336	152 79 165 334	333 13 108 10	54,014 710 34,502 4,178	162 - 55 319 418	10,34,639 25,798 3,77,845 (i) 21,824	9,96,269 25,974 4,13,412 47,741	676 35,567 25,917	38,379
outhern Mahratta (Mysore sec- tion) (;). The Gaekwar's Mehsana Kolhapur Istal gauges—	89 74 81	352 93 29	26,201 4,184 1,712	72 45 59	362 93 29	31,387 4,800 1,766	87 52 61	5,20,982 1,29,983 45,209	5,71,805 1,15,902 40,242	50,823	14,021
The Gackwar's Dabhoi	59 45	72 22	1,809 580	25 27	72 22	2,710 190	38	85,735 12,686	98,493 11,855	12,758	S31
TOTAL sowned and worked by native states.	136	1,042	1,07,417	103	1,042	1,34,257	129	22,54,201	23,21,753	67,552	
tre gauge— hhàvnagar-Gondal-Junagarh-Por- bandar etalsar-Rajkot odhpur-Bickanoer ctal gauge—	103 68 58	334 46 364	18,573 2,003 18,197	56 44 50	334 46 364	17,380 2,335 16,000	52 51 44	6.37,013 49,561 4,14,935	7,66,465 50,516 3,38,632	1,29,452 9,055 	76,903
Morvi	65	94	5,011	53	94	4,196	45	1,11,266	1,34,940	23,674	
TOTAL	78	838	43,784	52	838	39,911	48	12,12,775	12,98,953	86,178	
GRAND TOTAL	261	18,683	38,91,174	208	18,876	39,70,235	210	8,21,79,533	8,46,07,139	24,27,606	200

(f) Includes the Jammu and Kashmir and the Hyderabad-Shadipalli railways.

(g) Although for convenience classed amongst state railways, this line is the property of the Bengal Central Railway Company.

(h) Includes the Wardha Coal, Dhond-Manmad, Khamgaoo, and Amraoti railways.

(i) Total carnings from 1st June to 21st July 1894.

(j) Includes the Mysore-Nanjangad and the Yesvantpur-Mysore frontier sections.

·F. B. HEBBERT,

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JPPLEMENT

# The Gazette of Endia.

No. 32.}

SIMLA, SATURDAY, AUGUST 10, 1895-

## OFFICIAL PAPERS.

A SUPPLEMENT to the GAZETTE OF INDIA will be published from time to time, containing such Official Papers and mution as the Government of India may deem to be of interest to the Public, and such as may usefully be made in. The Debates of the Legislative Council of His Excellency the Governor General will in future be published in tVI of the GAZETTE.

Non-Subscribers to the GAZETTE may receive the Supplement separately on a peyment of five Rubees per ann lelivered in Calcutta, or eight Rupees if sent by Post. The Supplement and Part VI of the GAZETTE can also be cribed for separately on a payment of Rupees six per annum if delivered in Calcutta or Rupees nine if sent by Post No Official Orders or Notifications, the Publication of which in the GAZETTE OF INDIA is required by Law, or that been customary to publish in the CALCUTTA GAZETTE, will be included in the Supplement. For such Order Notifications the body of the GAZETTE must be looked to.

#### GOVERNMENT OF INDIA.

#### DEPARTMENT OF REVENUE AND AGRICULTURE.

Weather Review of India for the Week ending at 8 a.m. on Saturday, August 3rd, 1895.

The general weather has been the same as that reported last week. Pressure has been steadily highest in the extreme south and lowest in the extreme north, while the normal monsoon trough of low pressure has existed over the Gangetic plain. This trough on the 28th July and again between the 30th of July and the 2nd of August was traversed by feeble depressions travelling from the head of the Bay into North-Western India. As these depressions passed north-westward they occasioned an increase in the amount of rain over Northern and Central India, and on these occasions the rainfall became heavy in places, but as a rule showery weather only prevailed, and on several days both in the north-west of India and in the centre and east of the Peninsula even these showers were very light and scattered, or were altogether wanting. Notwithstanding this lightness of the rainfall the temperature over a large part of the country remained steadily low, so that, though in Sind, Rajputana, and the Punjab the heat was steadily excessive, the mean temperature of the whole country for the week was very nearly normal.

General Summary - Sunday. - Pressure had increased over a considerable part of the Punjab and the west of the North-Western Provinces, decreased in Sind and Kathiawar, and changed slightly elsewhere. The general distribution was fairly normal, and the winds blew from about the usual directions. A small shallow barometric depression existed near Allahabad. The rainfall was fairly granted except over the extreme partherest of India and the centre and general, except over the extreme north-west of India and the centre and east of the Peninsula, where there was little or none. The falls were heavy in the east of the Punjab, the west of the North-Western Provinces, and the Central

Provinces. The heat was excessive in the Punjab, Sind, and Rajputana, deficient in the North-Western and Central Provinces, and about normal elsewhere.

Monday.—Pressure had increased briskly to rapidly in the north of the Punjab, but had generally changed slightly elsewhere. The distribution was little changed, though the small depression noticed near Allahabad had disappeared. The wind directions were fairly normal, except at the head of the Bay, where a slight cyclonic circulation was apparently being initiated. Showery weather continued, except over a large part of Bengal, of North-Western India, and of the Peninsula. The rainfall amounts were less than on the preceding day. The heat continued excessive in Sind and Rajputana, in defect in the North-Western and Central Provinces, and normal elsewhere.

Tuesday.—Pressure had decreased in most parts of the country—most so in South-West Bengal. A small shallow depression had appeared over the head of the Bay and South-West Bengal, but in other respects the distribution was fairly normal. The winds continued to blow from about the usual directions. The rainfall was light generally, and there had been practically none over the extreme north-west of India and over the centre and east of the Peninsula. In the east of Rajputana the amounts were large. The mean temperature was in defect in the east of the Peninsula and the west of the North-Western Provinces, in excess in the west of the Punjab and in Bengal, and about normal elsewhere.

Wednesday.—Pressure had increased, except in part of West Bengal and of the Central Provinces. The recovery was greatest over Burma and the north of the Bay. The depression which lay over the north of the Bay on the 30th had commenced to move north-westward, and the centre was near Ranchi. In other respects the pressure distribution was fairly normal. The winds were feebly cyclonic within the depression area, but blew from monsoon directions elsewhere. The rainfall area had extended somewhat, but there was still hardly any rain over a large part of the Punjab, over Sind, Kathiawar, and the centre of the Peninsula. The mean temperature was in excess over the Punjab and Sind, in defect over Eastern Rajputana and the east of the Peninsula, and about normal elsewhere.

Thursday.—Pressure had continued to increase almost everywhere, the rise being greatest and brisk to rapid over Bengal and the north of the Bay. The depression had reached the neighbourhood of Allahabad, but this was the only change in the distribution, except that the pressure difference between Northern and Southern India had decreased. The winds were feebly cyclonic near the depression, and regular in direction elsewhere. The mean temperature was in considerable excess in the extreme north-west, in considerable defect over the central parts of the country, and nearly normal in most other places. There was little or no rain reported from Upper Burma, West Bengal, the extreme north-west of India, and the Carnatic. The amounts were moderately heavy over the Central Provinces, part of the Gangetic plain, and Southern Rajputana.

Friday.—Pressure had continued to increase—most in the north—and the depression to travel north-westward. The centre was close to Cawnpore, and the pressure difference between Southern and Northern India was less than the normal. The winds were little changed, and biew from about the usual directions. The force of the monsoon over the Bay was only moderate. The heat remained excessive in the extreme north-west, and less than usual over the central parts of the country. Rain was still very light over a large part of North-Western India, over Bengal, and over the centre and east of the Peninsula. It was, on the contrary, moderately heavy near the depression and over Eastern Rajputana.

Saturday.—Pressure had commenced to decrease very generally. The fall was greatest and brisk over Ganjam, Orissa, and the east of the Central Provinces, and a fresh slight depression was apparently developing over the north-west of the Bay. The general distribution was nearly normal, but the barometer read above the average almost everywhere—the excess being rather greater in the

north than in the south. The winds blew from the usual monsoon directions. The mean temperature was excessive over the Indus Valley; deficient over the north of the Punjab and over the central parts of the country. There was little or no rain reported from Lower Bengal, the Indus Valley, Kathiawar, the west of the Central Provinces, and the Carnatic.

Temperature.—The mean temperature of the whole of India has been very nearly normal throughout the week, and the mean variation for the whole week for the whole country was only —0.3°. The following table gives the variations of the mean temperature from the normal in the different provinces of India for each day of the week:

PROVINCE.		Juli	1895.		A	UGUST 18	95-	Mean	
PROVINCE,	28th	29th	30th	31st	Ist	2nd	3rd	of week.	
	0	0	a	0		o	0		
Burma	+0.8	-0.8	-0.0	-0'2	-1'4	-1.6	+012	-0.6	
Bengal and Assam	+0.6	+0.8	+0.6	+0.5	-1'2	-1'2	-0.4	-0.1	
Oudh	-1:6	-3.6	-1.6	-0.5	+0.1	-1.3	-1.6	-1.4	
Punjab	+50	+0.5	+0.3	+1.3	+3'0	+21	-1.4	+1'5	
Bombay	-0.4	-0.3	+0.4	+0.3	-0.0	0.4	+1.0	-0,1	
Central Provinces and Berar	-3.6	-1.0	0.3	-2.2	-3.9	-4.0	-0.8	-2.3	
Sind and Rajputana	+0.4	-0.7	+0.2	+1.1	-0.8	-1.8	-0.8	-0.3	
Madras	+3.7	+2.4	+0.3	+0.7	+0.0	+0.2	-0.0	+1.1	
Mauras	-00	-01	—1.2	-1.3	-0.4	+0.6	+0.2	-0.4	
Mean for whole of India .	+0.2	-0.4	-0.3	-0.1	-0.5	-0.8	-0.2	-0.3	

The most important variations were the slight excess in Sind, Rajputana, and the Punjab, and the moderate to slight deficiency in the North-Western Provinces and the Central Provinces. In the Indus Valley the heat was steadily excessive throughout the week, and the following maxima which were all recorded in that region were from 5° to 10° above the normal:

On July	28th	the highest maximu	im reported was	113.20	at Jacobabad.
,	29th		"	110.80	n n
	30th	, n	<b>37</b>	105.9°	" Mooltan.
7		*11	11	110.3°	" Jacobabad.
On August	ıst	100	) ·		" Mooltan.
20.	2nd	,,	,,		" Jacobabad.
	3rd		,,		

Rainfall.—On the whole the rainfall of the week under review has been generally similar to that reported last week, and it has been determined largely by the existence of steady normal monsoon conditions. These conditions, unlike last week, have, however, been disturbed by the passage from the Bay up the Gangetic plain of two small and shallow cyclonic storms. In consequence of the existence of cyclonic conditions, the occurrence of rainfall has been irregular, patches of heavy rainfall being shown in different parts of the country with relatively light rainfall in neighbouring regions. The heaviest and most general rainfall of the week was associated with the very slight barometric depression, which was traversing the Gangetic plain at the commencement of the week, the second and more considerable disturbance which existed during the latter half of the week producing much less effect on the weather. The table at the close of the summary shows the rainfall data. In Sind and Madras (South) no rain whatever was received during the week. In all the other divisions effective rainfall was received, though in the case of the Punjab (West) and of Kathiawar the total amount received was very small. The first column of the table shows that the

actual average rainfall of the week was heaviest, 16.81 inches, in Arakan. This was followed by 10.65 inches in Tenasserim, by 10.04 inches in the hill districts of the Punjab, by 8.98 inches in Coorg, and by over 7 inches in Lower Burma, Assam (Surma), and the Konkan. From these areas the amount of the rainfall decreased, and the smallest falls reported were 0.11 inch in the west of the Punjab and 0.10 inch in Kathiawar, while, as stated above, no rain whatever fell in Sind and Madras (South). The column of average normal amounts shows that the rainfall is ordinarily about 9 inches in Tenasserim and Arakan, about 7 inches in Coorg and the Konkan, about 5 inches in Assam (Surma) and the hill districts of the Punjab, and about 5 inches in East Bengal, while the fall is ordinarily lightest in the south-east of the Peninsula and in the extreme north-west of India. The above comparison shows that the actual and normal distributions of rainfall for the week generally agree fairly well, but that there is considerable difference between the actual and normal amounts. The third column shows that the actual rainfall was in excess of the normal in thirty divisions, and in defect only in twenty, and exactly normal in one division. The regions of excessive rainfall included the following divisions, vis., all the Burma divisions, both the Assam divisions, all the North-Western Provinces divisions (except submontane (a)), the central and hill divisions of the Punjab, Malabar, Coorg, Mysore, the Konkan, the Bombay Deccan, Khandesh, all the Central Provinces divisions, the Central India and Rajputana divisions, and the East Coast, North and Central Divisions. The abnormal excess was greatest, 7½ inches, in Arakan, and was large on the hills and in the central parts of the country. The above figures show an improvement as compared with the previous week, when an excess of rainfall was reported only in twenty-two divisions, and the maximum excess was only about 3½ inches. The comparative lightness of the rainfall over Lower Beng

The returns of the sudder stations show that rain fell daily during the week in Burma, Assam, Bengal, and the North-Western Provinces, on the first two and last two days of the week in the Punjab, daily in the west of the Peninsula and over the central parts of the country, and at irregular times over the east of the Peninsula.

The three concluding columns of the table show that the seasonal rainfall is fairly normal, i.e., exhibits a departure of less than 20 per cent. from the average over a large part of the country. The principal cases of deficiency are Arakan, East Bengal, Deltaic Bengal, Central Bengal, the Punjab (Submontane and West), Gujarat, Rajputana (East), and the East Coast (South), where the deficiency ranges from 25 per cent. to 35 per cent., Madras (South), where it is 53 per cent., and Sind, where it is 77 per cent. The most marked cases of excessive rain are Orissa and Ganjam.

The following are the more important total falls recorded during the week under review: Pyantaza (Pegu) 16'90 inches, Rathedaung (Akyab) 19'90 inches, Noakhalli 14'03 inches, Nemotha (Cachar) 17'61 inches, Kunch (Orai) 10'17 inches, Sardhana (Meerut) 10'72 inches, Kangra 16'60 inches, Beltangody (Mangalore) 15'91 inches, Devala (Nilgiris) 12'32 inches, Thirthahalli (Shimoga) 17'00 inches, Roha (Colaba) 14'50 inches, Bowda (Kolhapur) 18'20 inches, Umrer (Nagpur) 10'80 inches, Murwara (Jubbulpur) 10'02 inches, Thanaghozi (Ulwar) 11'40 inches.

		RAINFALL At	DATA FOR WEEL	R ENDING		DATA FROM JUDGET 3RD, 18	
PROVINCE.	DIVISION.	Average actual rainfall of division.	Average normal rainfail of division.	Excess or defect in inches.	Average actual rainfail of season to date.	Average por- mal rainfall, June 2nd to August 3rd,	Excess or de- fect of (sea- sonal) rain- fall expresse as a per- centage.
		Inches.	Inches.	Inches.	Inches.	Inches.	Per cent.
BURMA • • •	Tenasserim	10.65 7.16 4.18 1.18 16.81	9'40 4'87 3'17 7	+ 1'25 + 2'29 + 1'01 - 7'54	78.84 41.99 21.29 11.35 69.58	90'43 43'77 23'86 7 103'45	- 13 - 4 - 11 - 33
BRIGAL AND ASSAM	East Bengal	4'13 7'76 3'27 1'82 2'19 2'24 2'93 2'51 1'75	5'09 6'04 2'54 3'38 3'33' 3'88 2'93 4'00 3'30 2'55	- 0'96 + 1'72 + 0'73 - 1'56 - 1'14 - 1'64 - 0'79 - 0'80	26'35 64'73 33'33 15'67 17'77 48'27 31'69 23'15 17'14 23'12	40'70 69'99 31'62 23'96 23'47 47'20 23'05 23'49 19'36 21'98	- 35 + 5 - 35 - 24 + 2 + 37 - 11 + 5
JORTH-WESTERN PROVINCES AND OUDH.	North-Western Provinces (East) Do. (Submontane) (a) Oudh (South) Do. (North) North-Western Provinces (Central)	3.63 2.17 3.32 2.51 4.41	3'09 2'75 2'79 2'17 3'19	+ 0.54 - 0.58 + 0.53 + 0.34 + 1.22	18:04 18:91 18:24 19:08 17:96	17.67 19.97 16.46 17.89 15.90	+ 2 - 5 + 11 + 7 + 13
	North-Western (West). North-Western (Submontane). (b)	4°19 4°82	2°31	+ 1.49	14.02	13.16 20.83	+ 7
PUNJAB	Punjab (South)	0°53 3°22 1°40 10°04 1°44 0°11	1'08 1'47 2'26 5'99 1'52 0'55	- 0.55 + 1.75 - 0.86 + 4.05 - 0.08 - 0.44	5'20 9'31 9'71 35'37 - 6'88 2'31	6'20 9'98 12'83 35'01 7'58 3'23	- 16 - 7 - 24 + 1 - 9 - 28
COMBAY AND MALABAR COAST DIS- TRICTS (MADRAS).	Malabar Madras (South Central) Coorg Mysore Konkan Bombay Deccan Hyderabad (North) Khandesh	5'92 1'07 8'98 1'37 7'50 2'13 	4'71 1'40 7'47 1'30 7'03 1'28 	+ 1'21 - 0'33 + 1'51 + 0'07 + 0'47 + 0'85	67.08 10.88 60.80 10.21 65.28 14.09	66'91 11'48 70'75 12'71 73'40 13'19	- 5 - 14 - 20 - 11 + 7 - 15
CENTRAL PROVINCES AND BERAR.	Berar Central Provinces (West) Ditto (Central) Ditto (East)	2.61 4.87 5.25 4.33	1.80 2.16 3.88 2.85	+ 0.81 + 2.71 + 1.37 + 1.48	14.28 21.55 26.63 30.94	18'35 20'94 28'55 26'09	- 22 + 3 - 7 + 19
OMBAY (NORTH) . {	Gujarat	0.10 1.22	2.63 1.15 0.57	- 1.08 - 1.05 - 0.57	19°27 10°05 0°72	26.13 15.31 26.13	- 26 - 18 - 77
AJPUTANA AND CEN-	Central India (East)	4'42 4'03	2.53 1.83	+ 2°20 + 2°20	18:16	20°77 14°35	- 13 - 28
MADRAS	Rajputana (West)  East Coast (North)  Ditto (ditto) (a)  Hyderabad (South)  Madras (Central)  Ditto (South)  Madras (South)	1'90 3'75 0'69 0'41 1'62 0'16	1'41 2'66 0'99 0'55 0'59 1'20 0'40	+ 4'08 + 0'73 + 1'09 - 0'30 - 0'14 + 1'03 - 1'04 - 0'40	6-81 16-77 26-37 8-68 5-62 8-68 4-35 1-11	7'29 11'52 27'09 9'66 6'24 6'89 5'74 2'34	- 6 + 46 - 3 - 10 - 10 + 26 - 24 - 53

W. L. DALLAS,

Asst. Meteorological Reporter to the Government of India.

DENZIL IBBETSON,

Offg. Secretary to the Government of India.

B

SIMLA, 8th August 1895.

#### GOVERNMENT OF INDIA.

## DEPARTMENT OF REVENUE AND AGRICULTURE.

# Weekly Report on the state of the Season and Prospects of the Crops.

Madras.—For week ending 3rd August.—Rainfall good in the greater portion of the Circars, on the West Coast, and in the Nilgiris; no rain in Madura and Tinnevelly; rain generally light elsewhere. Agricultural operations are progressing. The standing crops are generally fair, but more rain is needed in parts of Cuddapah and Nellore, and in the Central and Southern districts. Pasture is improving, and fodder is available. The condition of cattle is generally good. Prices are slightly dearer in parts of the Carnatic and Southern districts; elsewhere prices are practically stationary.

Bombay.—For week ending 7th August.—Rainfall slight in Sind and Kathiawar; generally moderate elsewhere. More rain is wanted in Sind and in parts of the Deccan, Carnatic, and Thana. The river in Sind is rising slowly, and prospects have improved in parts, but the standing crops in Karachi, Hyderabad, and Shikarpur are still suffering for want of water. Sowing of the early crops is progressing in nine districts, and transplantation is in progress in six districts, but is retarded in parts of Thana owing to insufficient rain. Preparations for the late crops are progressing in parts of three districts. Fodder is sufficient, and agricultural stock is in good condition, except in parts of Shikarpur and Broach. Prices are normal, except in parts of three districts.

Bengal.—For week ending 5th August.—There was rain all over the Province during the week, but in the greater part it was below the average of the time of year. More rain is needed in many districts, and in the Burdwan and Presidency divisions the transplantation and cultivation of the winter rice crop are still very backward. The reports of the early rice and jute crops are generally fair. These crops are being harvested in some districts; and new jute has begun to arrive in Calcutta. In Bihar and Chota Nagpur the prospects of the autumn crops are favourable. The price of common rice continues almost stationary.

North-Western Provinces and Oudh.—For week ending 7th August.—Good and general rain has fallen during the week. The autumn crops are thriving. Weeding and transplanting are in active progress. Prospects are favourable. Supplies and fodder are sufficient. Prices are rising in a few districts; elsewhere prices are generally stationary.

Punjab.—For week ending 7th August.—Rain has fallen in all districts, except in Umballa, Dera Ismail Khan, and Peshawar. The autumn sowings are in progress in Delhi and Lahore, but rain is wanted for the autumn crops in Hissar, Umballa, Lahore, Multan, Shahpur, and Dera Ismail Khan. Prospects are from average to good. The crops are withering for want of rain in Hissar and Jullundur. Cattle are generally in good condition, and fodder is sufficient in all districts, except in parts of Lahore and Multan. Prices are rising in Umballa, Jullundur, and Peshawar, below normal in Sialkot, and continue low elsewhere.

Central Provinces.—For week ending 7th August.—The weather continues cloudy and cool. Rainfall general, as during last week, with heavy falls in the North and East of the Provinces. Rice sowings are in full swing in Raipur, but in Seoni more rain is wanted for rice transplantation. Weeding operations are in progress. Prospects continue favourable. Prices are almost stationary.

Burma.—For week ending 3rd August.—In Lower Burma good rain has fallen in all districts during the week. Agricultural operations are in active progress, and prospects are everywhere favourable. In Upper Burma little or no rain has fallen during the week in Mandalay, Shwebo, Sagaing, and Lower Chindwin, and prospects in these districts are very poor, though there is still hope if rain falls within the next ten days. Thayetmyo, Pakokku, Minbu, Meiktilla, and Yamethin have received amounts, varying from a quarter to half an inch, and prospects are slightly more favourable than last week, though rain is still badly wanted. The price of paddy has decreased considerably in Tharrawaddy, and slightly in Prome, Henzada, and Shwebo; elsewhere prices are stationary.

Assam.—For week ending 6th August.—Weather seasonable. Prospects of the crops are indifferent in parts of Lower Assam owing to floods. The condition of cattle is fair. Fodder is abundant, except in Kamrup and Nowgong. Water is sufficient.

Mysore and Coorg.—For week ending 7th August.—Mysore: Good rain in parts of Mysore, Hassan, Kadur, and Shimoga; slight elsewhere. The standing crops and prospects are fair. Sowing and ploughing operations are in progress in parts. Prices are almost stationary.

COORG: Rainfall good. Transplanting of rice is in progress. Ragi (Eleusine coracana) is coming into ear. Coffee and cardamom are fair. Water and fodder for cattle are abundant. Prices are normal.

Berar and Hyderabad.—For week ending 7th August.—BERAR: Weather warm and cloudy with sufficient rainfall during the week. The crops generally are in good condition. Cotton and jowar (Sorghum vulgare) are thriving well. The land is being prepared for the winter crop. Sowing and weeding operations continue. Fodder and water are sufficient. Prices are nearly stationary.

HYDERABAD: Rainfall good. Sowing of the autumn crops is progressing generally. The water-supply is sufficient. Prices continue normal.

Central India.—For week ending 7th August.—Rainfall general, but more rain is still wanted in Neemuch. Agricultural operations are in progress in all Agencies, except in Goona where operations have been stopped by excessive rain. Prospects are fairly good in all Agencies, except in Goona. Cattle are, in fairly good condition, except in Bhopal and part of Bhopawar. Pasturage is good and sufficient everywhere, except in three districts of Gwalior. Prices of food-grains are high in Bhopal and Goona, rising in two districts of Gwalior, but are normal elsewhere.

Rajputana.—For week ending 7th August.—Good rain almost throughout; but more rain is needed in Meywar and Bikanir. Agricultural operations are generally satisfactory. The standing crops are fair. Agricultural stock is generally in good condition. Pasturage and fodder are generally sufficient. Prices have fallen in five States, but are steady elsewhere.

Kashmir.—For week ending 6th August.—Kashmir Valley: The prospects of the autumn crops are good. Rain is wanted for dry-land crops. Irrigation is ample for rice. Prices show a tendency to rise.

JAMMU PROVINCE .- For week ending 7th August .- Report not received.

Nepal.—For week ending 3rd August.—Rainfall seasonable. Indian-corn is still being harvested. Prospects of the rice crop are good.

DENZIL IBBETSON,

Offg. Secretary to the Government of India.

### GOVERNMENT OF INDIA. PUBLIC WORKS DEPARTMENT. RAILWAY STATISTICS.

# STATEMENT OF APPROXIMATE GROSS EARNINGS OF INDIAN RAILWAYS FROM 1ST TO 28TH JULY AND FROM 1ST TO 27TH JULY 1895. N.B.—As regards the figures in column Total Earnings from 1st July 1895, audited figures have been used as far as possible.

	Average earnings		ENDING 25	STH		ULY 1895.	7TH	Earnings	Earnings		1
RAILWAY.	per mile per week		Earnin	gs.		Earnin		from 1st to 28th	from 1st to 27th	Increase.	0
RAILWAY.	during the 2nd-half of 1894.	Mean mileage worked.	Total.	Per mile open per week.	Mean mileage worked.	Total.	Per mile open per week,	July 1894.	July 1895.		1
State lines worked by companies.	Rs.	Miles.	Rs.	Rs.	Miles.	Rs.	Rs.	Rs.	Rs.	Rs.	Γ
Standard gauge— East Indian Bengal-Nagpur Indian Midland (a)	556 109 132 198	1,683 862 752 21	8,66,813 62,221 88,960	515 72 118 153	1,710 862 752 21	8,02,458 63,000 71,303 3,162	469 73 95	34,02,672 2,81,903 3,45,134 11,939	33,92,267 2,76,000 2,71,846 12,204	  265	
Metre gauge— Rajputana-Malwa (b)	236	1,719	2,60,886	152	1,790	3,02,920	169	14,51,880	13,93,380		ı
Pálanpur-Deesa South Indian	37 154 82 90 121	17 1,042 54 1,165 756	306 1,50,628 3,523 1,10,576 94,751	18 145 65 95 125	17 1,042 54 1,165 756	1,110 1,57,825 5,050 1,19,862 78,850	65 151 93 103 104	1,641 6,49,480 17,301 4,34,199 3,95,692	3,070 6,73,852 22,371 4,70,672 3,33,510	1,429 24,372 5,070 45,473	
Rohilkund and Kumaen (Lucknow- Bareilly section)	87	200	9,740	49	200	10,620	53	46,226	43,789	***	1
State lines worked by the State.	237	8,271	16,51,623	200	8,369	16,16,160	193	71,28,067	69,01,961		1
Standard gauge  North Western (state) (e) Oudh and Rohilkhand (state) . Eastern Bengal (state) (including	242 238	2,507 797	4,54,003 1,80,035	181 226	2,511 797	5,86,322 1,93,645	234 243	24,19,226 7,43,467	27,10,757 7,12,550	2,91,531	
metre and 2' 6" gauges)  Bengal Central (f)  East Coast (state)	382 127 90	813 125 321	2,17,092 13,704 33,526	- 267 110 104	813 125 397	1,89,416 14,150 45,331	233 113 114	7,66,256 53,602 94,897	6,96,890 56,600 1,33,615	2,998 38,718	
Metre gauge— Burma (state) Special gauges—	131	730	1,03,365	142	746	97,795	131	4,92,328	3,65,044		١
Jorhát (state provincial)	61	25	1,876	75	25	1,988	80	7,143	6,439		1
vincial)	59	8	416	-	8	415	-	1,703	841	. ***	1
Lines worked by guaranteed com-	235	5,326	10,04,017	189	5,422	11,29,056	208	45,78,622	46,82,736	1,04,114	1
Standard gauge— Great Indian Peninsula (g) Bombay, Baroda and Central India . Madras	341 530 236	1,490 461 840	3,37,666 1,13,215 2,05,654	227 246 245	1,490 461 840	3,36,625 = 1,66,000 2,08,809	360	16,87,027 7,18,126 7,91,338	14,22,478 8,63,000 8,23,803	1,44,874	
TOTAL	340	2,791	6,56,535	235	2,791	7,11,434	255	31,96,491	31,09,281		Ť
TOTAL (GUARANTEED AND STATE) .	251	16,388	33,12,175	305	16,582	34,56,650	208	1,49,03,180	1,46,93,978		T
Assisted companies, Standard gauge— Deihi-Umballa-Kalka Tackessur Metre gauge—	152 222	161	20,746 3,957		161	24,606 4,241		97,223 21,043	99,420 21,438	2,197 . 395	
Rohilkund and Kumaon (Company's section) Bengal Deoars Dibru-Sadiya Special gauge—	116 148 130	67 36 78	6,042 3,985 11,012	111	66 36 78	6,580 5,260 11,188	146	29,269 14,107 45,704	30,055 17,340 42,243	786 3,233	
Darjeeling-Himalayan	248	51	12,363	242	51	12,509	245	45,797	44,318		1
Lines owned by native states and worked by other agencies.	157	415	58,105	140	414	64,384	156	2,53,143	2,54,814	1,671	+
Standard gauge— The Nizam's guaranteed state The Gackwar's Petiad Rájpura-Bhátinda Kolar Gold-fields Metre gauge—	171 89 257 241	333 13 168 10	61,360 708 17,829 3,000	165	13	45,588 810 28,532 3,175	264	2,18,798 3,684 71,317 11,605	1,92,055 3,420 1,13,061 13,693	41,744 2,088	
Southern Mahratta (Mysore section) (h) The Gaekwar's Mehsana Kolhapur	87 60 71	362 93 29	31,927 2,104 1,945	23	362 93 99	35,218 4,000 1,420	43	1,16,161 16,045 7,956	1,38,013 17,090 6,706	21,852	
Special gauge— The Gaekwar's Dabhoi Cooch Behar	47 40	72	1,018		72 22	2,020		7,652 2,489	9,720	2,069	
Lines owned and worked by native	126	1,042	1,20,495	-	1,042	1,23,243	-	4,55,707	4,95,508	39,801	
States.  Metre gauge— Bhávnagar-Gondal-Junágarh-Porbandar. Jetalsar-Rájkot Jodhpur-Bickaneer Special gauge—	81 61 48	334 46 364	13,171 2,331 16,469	45	334 46 364	17,378 2,476 14,100	54	67,955 8,655 76,139	71,470 9,192 62,250	3,515 537 	1
Morvi	56	94	1,492	16	94	5,514	-	15,017	19,033	4,016	H
TOTAL	63	838	33,463	-	838	39,468	-	1,67,766	1,61,945		H
GRAND TOTAL	234	18,683	35,24,238	189	18,876	36,83,745	195	1,57,79,790	1,56,05,243		I

F. B. HEBBER Under Sa

Includes the Bhopal-Itirsi railway.
Includes the Godhra-Rutlam railway.
Includes the Guntakal-Mysore frontier section.
Includes the Tirhoot state railway. Although for convenience classed amongst state railways, the company's section of this line is the property of the Bengal and North-Western Railway Company.

<sup>(</sup>e) Includes the Jammu and Kashmir and the Hyderabad-Sharailways.

(f) Although for convenience classed amongst state railways, is the property of the Bengal Central Railway Compast (g) Includes the Wardha Coal, Dhond-Manmad, Khamgas Amraoti railways.

(h) Includes the Mysore-Nanjangud and the Yesvantpurk frontier sections.

# GOVERNMENT OF INDIA. PUBLIC WORKS DEPARTMENT. RAILWAY STATISTICS.

No. XV of 1895-96.

# STATEMENT OF APPROXIMATE GROSS EARNINGS OF INDIAN RAILWAYS.

N.B.—As regards the figures in column Total Earnings from 1st April 1895, audited figures have been used, as far as possible.

	Average		ULY 1894.	O.B		ENDING 2 ULY 1895.		Earnings	Earnings		
RAILWAY.	earnings per mile		Earnin	The second second		Earnin	The State of the S	from 1st April to	from 1st April to	Increase.	Decrease
RALWAT	per week in 1894-95.	Mean mileage worked.	Total.	Per mile open per week.	Mean mileage worked,	Total.	Per mile open per week.	28th July 1894.	27th July 1895.		
e lines worked by companies.	Rs.	Miles.	Rs.	Rs.	Miles.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
andard gange— East Indian	599	1,683	8,66,813	515	1,710	8,02,458	469	1,72,43,808	1,78,97,358	6,53,550	
Bengal-Nagpur	152 144 170	862 752 21	62,221 88,960 3,219	72 118 153	862 752 21	63,000 71,303 3,162	73 95 151	21,62,334 19,63,741 45,953	22,17,498 15,26,939 53,402	7,449	4,36,80
etre gauge— Rajputana-Maiwa (b) Pálanpur-Deesa	279 44	1,719	2,60,886 306	152	1,790	3,02,920	169 65	89,76,925 12,457	86,72,469 15,068	2,611	3,04,45
South Indian	154 75	1,042	3,523	145	1,042	1,57,825	93	27,74,815 (c) 65,852	30,58,441 88,273	2,83,626	444
Mayavaram-Mutupet	105	1,165	94,751	95 125	756	78,850	103	23,69,685	24,24,444 19,82,045	54,759	1,49,91
Bengal and North-Western (e) . Rohilkund and Kumaon (Lucknow- Bareilly section)	88	756	9,740	49	200	10,620	53	2,96,050	2,65,871		30,17
TOTAL	259	8,271	16,51,623	200	8,369	16,16,160	193	3,80,43,582	3,82,01,808	1,58,226	
e lines worked by the State.	100	1000	Name to A	16.55		- 96					
andard gauge— North Western (state) (f) . Oudh and Rohilkhand (state) . Eastern Bengal (state) (including	252 270	2,507 797	4,54,003 1,80,035	181	2,511 797	1,93,645	234 243	1,07,49,856 36,99,507	1,31,22,156 35,84,821	23,72,300	1,14,68
metre and 2' 6" gauges)	339 130	813 125	2,17,092	267 110	813 125	1,89,410	233	35,18,726 2,61,756	34,92,829 2,64,201	2,445	25,89
East Coast (state)	164	321	33,526	104	397 746	45,331 97,795	114	5,09,124 20,58,505	20,87,758	29,253	
Burma (state)	55	730	1,876	75	25	1,988	80	23,776	26,610	2,834	
Cherra-Companyganj (state pro- vincial)	64	9	416	52	8	415	52	8,241	5,268		2.02
TOTAL	243	5,326	10,04,017	189	5,422	11,29,056	208	2,08,29,491	2,32,50,219	24,20,728	2,97
es worked by guaranteed com- panies.	-43	3,320		109	3,400	-1-31-3-	200	-1003193431	-13-13-1-19	-455710	-
andard gauge— Great Indian Peninsula (h)	442	1,490	3,37,666	227	1,490	3,36,625	226	1,25,11,295	1,07,95,817		17 15 40
Bombay, Baroda and Central India Madras	678 243	461 840	1,13,215 2,05,654	246 245	461 840	1,66,000 2,08,809	360 249	60,61,415 34,36,646	70,79,031 36,91,833	2,55,187	17,15,47
TOTAL	421	2,791	6,56,535	235	2,791	7,11,434	255	2,20,09,356	2,15,66,681	***	4,42,67
AL (GUARANTEED AND STATE) .	281	16,388	33,12,175	202	16,582	34,56,650	208	8,08,82,429	8,30,18,708	21,36,279	
Assisted companies.					140 - D						
Delhi-Umballa-Kalka Tarkessur etre gauge—	165 269	161 22	20,746 3,957	129 180	161 22	24,606 4,241	153	4,73,988	4,96,037 1,10,053	22,049	3,96
Rohilkund and Kumaon (Com- pany's section).	121	67	6,042	90	66	6,580	100	1,64,490	1,67,866	3,376	
Bengal Dooars	161	36 78	3,985	111	36 78	5,260 11,188	146	51,084	64,350 1,83,302	13,266	
ecial gauge— Darjeeling-Himalayan	249	51	12,363	242	51	12,509	245	2,20,858	2,71,230	50,372	-
	164	415	58,105	140	414	64,384	156	12,00,408	12,92,838		
es owned by native states and worked by other agencies. andard gauge— The Nizam's guaranteed state		10					150	12,00,408	12,92,030	92,430	
The Gaelcwar's Petlad	187	333	61,360	184	333	46,588 810	140	10,95,999 26,006	10,44,256 27,048	1,042	51,74
Rájpura-Bhátinda	271 200	108	17,629	165	108	28,532 3,175	264 318	3,95,674 (i) 24,824	4,41,944 50,318	46,270	
etre gauge- Southern Mahratta (Mysore sec-	1000					33.73	310	(1) 24,024	30,510	25,494	- "
tion) ( j )	89	362	31,927	88	362	36,218	100	5,52,909	5,90,476	37,567	***
Kolhápur	74 81	93 29	1,945	67 67	93	1,420	43 49	1,32,087 47,154	1,20,357 42,228		4,93
ecial gauges— The Gackwar's Dabhoi Cooch Behar	59 45	72 22	1,018	14 27	72	2,020 480	28	86,753	1,00,792	14,039	
TOTAL	136	1,042	1,20,495	116	1,042	1,23,243	118	23,74,696			93
s owned and worked by native states.		,	100		7.7	7-3)-43	710	23,74,090	24,29,773	55,077	***
Bhavnagar-Gondal-Junagarh-Por- bandar	103	334	13,171	39	334	17,378	52	6,50,184	7,85,053	1 21 05	
letalsar-Rájkot Jodhpur-Bickaneer	68	46 364	2,331 16,469	51 45	46 364	2,476	54	51,892	62,165	1,34,869	
ccial gauge-	65	94	1,492	16	94	5,514	39 59	4,31,404	3,52,280	 ag noa	79,12
Total	78	838	33,463	40	838	39,468	47	12,46,238	1,41,751	28,993 95,011	
	The Late of the La	The second second	0014-3	1000000	ALCOHOLD	4374	4/	1-1401-30	*3341,449	95,011	

F. B. HEBBERT, Under Secretary

4, the 8th August 1895.

ncludes the Bhopal-Itarsi railway.

ncludes the Godhra-Rutlam railway.

otal earnings from 2nd April to 28th July 1894.

ncludes the Guntakal-Mysore frontier section.

ncludes the Tirhoot state railway. Although for convenience classed amongst state railways, the company's section of this line is the property of the Bengal and North-Western Railway Company.

<sup>(</sup>f) Includes the Jammu and Kashmir and the Hyderabad-Shadipalli railways.

(g) Although for convenience classed amongst state railways, this line is the property of the Bengal Central Railway Company.

(h) Includes the Wardha Coal, Dhond-Manmad, Khamgaon, and Amraoti railways.

(i) Total carnings from 1st June to 28th July 1894.

(j) Includes the Mysore-Nanjangud and the Yesvantpur-Mysore frontier sections.

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CALCUTTA, SATURDAY, AUGUST 17, -1895.

# OFFICIAL PAPERS.

#### GOVERNMENT OF INDIA.

### PUBLIC WORKS DEPARTMENT.

CIVIL WORKS.

### Irrigation.

REVIEW OF THE REVENUE AND EXPENDITURE RECORDED UNDER THE HEAD "IRRIGATION WORKS" IN THE ACCOUNTS OF THE GOVERNMENT OF INDIA FOR 1893-94.

No. 194-I., dated Simla, the 6th August 1895.

RESOLUTION-By the Government of India, Public Works Department.

Note by R. G. MACDONALD, Esq., Accountant General, Public Works Department, upon the Accounts of Revenue and Expenditure of Irrigation Works in India for 1893-94.

RESOLUTION .- The Irrigation Works in India are divided into Major Works and Minor Works.

Major Works are sub-divided into-

(a) Productive Works, the Capital of which has been provided from borrowed money.

(b) Protective Works, the Capital of which has been provided from the General Revenues of India.

Minor Works, for the purpose of the Accountant General's note, are subdivided into-

(a) Works for which Capital and Revenue Accounts are kept.
 (b) Works for which Capital Accounts are not kept.

e. Capital and Revenue Accounts are kept for all the 44 projects which are classified as Major Irrigation Works. Of these, 36 were sanctioned as Productive Public Works and the remaining 8 as Protective Works.

Under the head of Minor Works, there are 75 projects for which Capital and Revenue Accounts are kept, and for the remaining works under this category one

account only is kept in which are entered the receipts and charges for each work or group of works.

3. The following statement shows the return derived from the Irrigation systems, for which Capital and Revenue Accounts are kept. Purely navigation

systems are excluded :-

· CLASS OF WORK.	Num- ber of works.	Direct and Indirect Capital outlay to end of 1893-94.	Gross Revenue.	Working expenses, including indirect charges.	Net revenue.	Irrigated area.	Percentage of net revenue on Capital outlay.
4 6		Rx.	Rx.	Rx.	Rx.	Acres.	
IRRIGATION.  I Mojor Works-		10		i i		- 211	
(a) Productive	35*	28,855.437	2.070.378	840,195	1,239.183	6,781,777	4:29
Add-On account of old irrigation-		\$ 3.70 A P		4:19	au en as		10.10/
In Madras In Sind		9 A9.	289,700 ° 3,705	37•725 <sub>9</sub>	251.925 2,795		•
Total Productive .	35*	28,855,437	2,372,783	878,880	1,493,903	6,781,777	2.18
(b) Protective	8	1,913,920†	44,974	29,775†	15,199	167,604	0.48
Works for which Capital and Revenue Accounts are kept	69‡	2,996,984	636,3725	198,608	437.764	2,116,964	14.61
GRAND TOTAL .	112	33,796,841	3,054,129	1,107,263	1,946,866	9,066,345	570

Excludes the Hijili Tidal Canal (Bengal).
Includes outlay on Gokak Canal, 1st Section, which is now classed as a Minor Work and combined with Gokak Storage cks.

Excluding two navigation canals in Bengal (the "Calcutta and Eastern," and the "Orissa Coast" Canals), and four gation canals in Madras (the Chilka Lake, Buckingham, Verlaranniyam, Ganjam-Gopalpur Canals).

Includes share due to old irrigation in Madras and in Sind.

4. The net revenue derived from the Major Works as a whole was Rx.132,709 less than that of the previous year. The decrease occurred principally in the Punjab and in Bengal. In the Punjab it was due to the rainfall which enabled crops to be brought to maturity without the aid of canal water, and in Bengal the net revenue is not fairly comparable with that of the previous year which was abnormally swollen by the recovery of arrears of water-rates due from former

The net revenue derived from Minor Irrigation Works is shown in the accounts as being Rx. 25,054 better than that of 1892-93. The accounts for 1892-93, however, included a sum of Rx. 78,047 on account of irrigation revenue for 1891-92 from certain works in Madras which was reported by the Board of Revenue too late to be included in the accounts of that year. Excluding ing this special item from the accounts of 1892-93, the net revenue realised during the year under review was Rx. 103,101 better than that of the previous

The increase occurred in Rajputana, Lower Burma, Punjab, Madras and Bombay, and is due to the larger area irrigated during the year, to enhancement of rates in the Lahore District in the Punjab and to the recovery of certain arrears in Baluchistan.

The Capital expenditure on the Periyar Project, a productive work in Madras, is included in the figures on which the net revenue percentage is calculated. This work has not yet begun to earn revenue, and the Chenab Canal, the Sirsa Branch of the Western Jumna Canal, the Rushikulya Project and other canals which have been recently opened for irrigation are not yet earning a revenue at all approaching that which may ultimately be expected. The

financial results of the canals in full operation are therefore more satisfactory

than is indicated by the figures in paragraph 3.

The total net profit on all Major Works up to the end of 1893-94 amounted to nearly 3'1 millions of Rx.

5. The following statement shows the area irrigated by, and the gross revenue derived from, the Major and Minor Irrigation Works during the last five

Major Works.			· Minor	Works.	Тотац		
YEAR.	Alexandresis	13 13 13 13 1		100	1 200		
	Area irri- gated.	Gross revenue realized.	-Area irri- gated.	Gross reve- nue realized.	Area irri- gated.	Gross reve	
		The state of		- 4	The state of	mide d'anni	
	Acres.	Rx.	Acres.	· Rx.	Acres.	R'x.	
1889-90 . *.	7,047,553	2,137,441	1,829,312	377.972	8,876,865	2,515,41	
890-91	7,172,468	2,312,787	2,101,586	483,127	9,274,054	2,795,91	
891-92 .	7,550,484.	2,395,372	2,123,659	*431,279	9,684,143	2,826,65	
892-93	7,043,286	2,552,415	2,272,091	1607,549	19.315.377	3,159,96	
893 94 • • • •	6,949,381	2,417,757	2,116,964	636,372	19,066,345	3,054,12	

<sup>\*</sup> Exclusive of figures for certain works in Madras, which were not given in the Revenue Report for 1891-92.

The area irrigated and the gross revenue realized are both less than during the previous year. The former is slightly below and the latter is higher than the average of the preceding five years.

The area irrigated in Native States in the Punjab from the portions of the canals constructed from funds contributed by these States amounted to 153,163 aeres in 1893-94. .

- . 6. The estimated value of the crops irrigated from the Major and Minor Works during 1893-94 amounted to Rx. 24,958,361, being an average of Rx. 2'75 per acre.
- 7. The average rate of revenue assessed per acre irrigated during 1893-94 was Rx. 0'35 and Rx. 0'24 for Major and Minor Works, respectively.

. The corresponding figures for the previous year were Rx. 0 32 and Rx. 0 21.

For Major Works, the rate varies from Rx. 0:61 in Bombay (exclusive of Sind) to Rx. 0:18 in Bengal and Sind, and for Minor Works from Rx. 0:78 in Baluchistan to Rx. 0'14 in the Punjab.

<sup>†</sup> The increase was due to the inclusion in the accounts for 1892-93 of inigation revenue of certain works in Madras pertaining to the year 1891-92-vide note \* above.

<sup>2</sup> Exclusive of the area irrigated in Native States in the Punjab.

8. The areas of the principal crops irrigated by the works for which Capital and Revenue Accounts are kept in the various Provinces during 1893-94 are given in the following statement:—

Contract of the Contract of th		Market Market Street Company	and the second second			-			-15-16-16-16-16-16-16-16-16-16-16-16-16-16-	
PROVINCE.	Rice.	Wheat,	Jowar and chari (Sorghum vulgaré).	Bajra (Pani- cillaria spicata),	Sugar cane.	Cotton,	Barley.	Indigo.	Maize.	Ragi (Eleu- sine cora a- na).
	- Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres,	Acres,	Acres.	Acres.
Bombay (excluding Sind)	5,217	10,856	12,020	4,378	13,063	123	645	-	2,031	
Sind	443,398	128,737	226,089	322,138		69,351	1,958	-	2000	*
Punjab	156,282	962,074	138,509	29,556	60,346	246,452	40,709	79,594	132,185	,""
Bengal	452,702	14,548		;	* 55,326		12,001			*
Madras	2,615,393			-						56,339
North-Western Provinces	138,875	558,126	11,953		207,537	63,776	55,439	264,652	18,429	

9. The following are the percentages on gross revenue of the cost of revenue management (including collection charges), and of the up-keep of the works for Major Works in the different Provinces:—

	PROVINCE.	Revenue management, per cent.	Up-keep, per	Total, per cent.
Madras	Martin of the	9.0	12.7	21.7
North-Western Provin	ces	14.5	243	38.8
Punjab	Number of the Control	16.9	288	45'7
Bombay	10 m 10 m	 16.1	31.1	. 47'2
Sind		10.6	29'2	*3 '8
Bengal	9	28.7	63.9	92.6*

Excluding Tidal Canal.

10. The following statement shows the total cost of working per acre irrigated by the Major Works in the different Provinces:—.

nite nelle produk plasenske ach inne	1893-94-	
Sind	Rx. '06	Including old maintenance charges.
Punjab	117-	
Bengal	.27	Excluding maintenance of Tidal Canal.
Bombay, excluding Sind	38	decamps this charter at

The figures do not vary much from those of the previous year, except in the case of Bombay (excluding Sind), where the cost of working per acre irrigated has fallen from Rx. 0.51 in 1892-93 to Rx. 0.38 in 1893-94, the charges

for 1892-93 having been exceptionally high owing to special repairs necessitated by heavy floods.

11. The following statement gives, for the principal canals in each Province, details of the lengths of channels, of canal discharge, of area irrigated and of the duty of water:—

CANALS.	Length of com- pleted main	Length of com- pleted distri-	Maxi- mum dis- charge at head of	AVERAGE HEAD (FEET SECO	CUBIC PER		AREA IRR	GATEED (	ACRES).		ARRA IRR PER CUBIC PER SECO AVERAG CHARG HEAD (4	ND OF E DIS-
	and branch canal (miles).	buta- ries (miles).	canals (cubic feet per second).	Kharif.	Rabi.	Kharif.	Rabi.	Total.	Flow.	Lift.	Kharif.	Rabi.
2	3	4	5	6	7	. 8	9	10	Ť1	12	13	14
114						2000	1					
. Nira	- 96	132	456	252	296	13,556	10,947	24,503	24,442	61	54 (273)	37 (92)
2. Mhasvad Tank	28	66	•••	. 102	.74	3,907	1,376	5,283	5.244	39	38 (273)	18 (92)
3. Mutha	88	70	-	152	144	6,634	1,625	8,259	. 8,198	61	43 (273)	11 (92)
4 Krishna	61		90	61	102	2,810,	1,932	4,742	. 4,025	716	46 (273)	19 (92)
5. Swat river	22	143	675	495	441	31,206	79,613	110,819	110,819		63 (178)	181 (117)
6. Western Jumna, including Sirsa	393	1,417	4,050	2,601	2,623	183,154	176,789	359,943	349,079	10,864	70 (171)	67 (146)
Branch.	460	1,053	4,143	3,196.	- 2,784	202,553	337,504	540,057	502,429	37,628	63 (168)	121 (126)
7. Bari Doab	362	2,714	6,060	2,864	3,117	59,313	216,484	275,897	275,175	722	21 (86)	69 (141)
8. Sirhind	319	653	2,100	1,700	1,529	119,363	151,042	270,405	268,373	2,032	72 (181)	99 (144
o. Sidhnai	68	112	ijíot.	1,071	1,157	58,947	92,480	151,427	Not rep	orted.	.55 (182)	80 (165
1. Upper Sutlej	219	137	2,074	Part of	074	78,898	95,845	174.743	168,243	6,500	84	(19
2. Indus Inunda- tion.	728		6,748	3	\$18	120,160	57,762	177,922	162,181	15,741	51	
3. Muzuffargarh Inundation,	824	453		Not re	ecorded	123,331	189,704	313,035	Not rec	orded.	Not re	corded,
14. Orissa	280	1,085	6,038	1,495	739	100,622	2,904	103,526	97,699	5,827	67	3
15. Sone	367	1,211	5.955	3,438	1,634	317,759	49,017	360,776	358,536	8,240	81	41
16. Godavari .	503	1,891	11,213	7,207	5,325	638,579	81,008	719,587	705,886	*13,701	89	15
17. Kistna	3:9			100	S CHARLES	507,321	148	507,469	502,865	4,604	116	
18. Penner	22		3 1151923	2000	290	64,349	3,634	67,983	67,234	+749	186	12
19. Sangam	9	284	4,067	659	190	70,462	3,480	73,942	72,079	1,863	107	18
20. Cauvery .	844	1,250	8,042	14,738	1,439	858,962	103,802	962,764	912,116	50,648	58	7
21. Upper Ganges		2 524	7,782	4,627	3,730	295,621	361,136	656,757	541,554	115,20	64 (10)	97 (14
22. Lower Ganges	557				900576000	3.000.007.0	321,322	525,853	37 P. 1954 (1965) S. 19	PASS NUMBER		PARTICION
23. Agra	100		31 1921, 1730	A CONTRACTOR	3 St. 50	A STATE OF THE STA	92,206					2 123 0 200
24. Eastern Jumna	G (500 mile)		100000		64 4 dy 8 0 d	Assessed VIII	95,166	Saltan suppli	AUTO SANTO	200000000000000000000000000000000000000		9 5000
25. Desert	. 19:		3,30	8	2,005	84,164	5,404	89,508	So,906	8,66	42	
26. Begari	170		6,12		4,121	170,774	30,000	The state of the s				
27. Ghar	. 29	BUREAU	STREET, STREET,	- OWN	6,585	199,524	59,140		THE RESIDENCE OF THE PARTY OF T	0.000		·
28. Fuleli.	. 1,019	STATION STATE		1000000	5,571	287,785	A ROAD AND A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	221,519	112,72	44	-
	1000				AN EXPENSE			-	0 (15 (15 (15 (15 (15 (15 (15 (15 (15 (15		No. of Concession, Name of Street, or other Designation, or other	
TOTAL	. 8,62	1 20,32	6	(t) s (***)		4,983,897	2,674,533	7,658,436	6,506,734	687,23	100	

works proper, for which Capital and Revenue Accounts are kept. Works in which navigation is combined with irrigation are excluded, being included in the statement in paragraph 3:—

CLASS OF WORKS.	Number - of works.	Direct and in- direct Capital outlay to end of 1893-94.	Gross revenue.	Working ex- penses, in- cluding indirect charges.	Net revenue.	Percentage of net revenue on Capital outlay.
Navigation.	701	· Rx.	Rx.	∃Rx.	Rx.	
IMajor Works-	2 4 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				5
(a) Productive .	1	231,923	5,919	5,650	269	. Mr
11Minor Works .	6	1,824,631	62,657	51,372	11,285	62
TOTAL .	7"	2,056,554	68,576	57,022	11,554	56

The percentage of net revenue on Capital outlay was 0.56 as compared with 1.04 in 1892-93 and 0.34 in 1891-92.

13. The following statement gives some details of the navigation operations of the year. Works on which navigation is combined with irrigation are included:—

PROVINCES.	Length of Canal open for navigation;	Ton-mileage.	Estimated value of cargoes.	Estimated value of rafts.	Number of passengers carried.
1	2	3	4 1	5	. 6
	Miles,	Millions.	Thousands of Rx.	Thousands of Rx:	e de la companya de La companya de la companya de l
Punjab :	432*			141	6.313
Bengal	673	45:285	9,099	49	699,131
Madras	1,242	45'374	4,910	424	4,86,315
North-Western Prov- inces	535	6.347	232	27	89
TOTAL .	2,882	97.006	14,241	641	1,191,848

The figures show a falling off as compared with the previous year, except in the number of passengers carried.

14. Besides the irrigation works for which Capital and Revenue Accounts are kept, there are numerous small works for which only Revenue Accounts are kept, or for which no Revenue Accounts are kept.

The direct outlay on such works, including those maintained by the Civil Department, was Rx. 633,398 against Rx. 694,718 during 1892-93, while the direct receipts were Rx. 67,465 against Rx. 62,752.

These direct receipts comprise only the sums realized by the Public Works Department, which alone are credited in the Public Works Accounts. whole of the revenue due to irrigation is assessed and collected with the land revenue and is therefore credited as an indirect receipt.

The following statement gives some further information relating to these works, the figures being extracted from the Irrigation Revenue Reports of the

different Provinces.,

Certain receipts, e.g., those realized by Civil Officers from irrigation works under their charge, do not appear in the Irrigation Revenue Reports, so that the figures in the statement are approximate only, but are sufficient to show the great importance of the works in question. Figures relating to works classed as "Agricultural" are excluded:—

	VV,OR KS POP	WHIGH CAPITAL	ACCOUNTS ARE	AUT REET.
Province.	Gross revenue from all sources direct and indi- rect, as recorded in Irrigation Re- venue Reports.	'Working expenses, including collec- tion charges.	Net revenue.	Area irrigated
The second second	Rx.	Rx.	Rx.	Acres.
Bombay, excluding Sind	54,633 219,344	28,057 *104,591	26/576	977,268
Punjab	40,963	22,628	18,335	313,035
Bengal	20,732 907,778	20,538	687,136	3,573,871
TOTAL .	1,243,450	396,456	846,994	5,026,377

<sup>·</sup> Exclusive of indirect charges.

The total area irrigated by these works amounted to 55'4 per cent. of that irrigated by the Major and Minor Works as shown in paragraph 5.

15. The total area irrigated during 1893-94 from all works amounted to

143 million acres:

If the value per acre of the irrigated crops be taken at the estimated rate of Rx. 275 per acre given in paragraph 6, the total value of the produce from irrigated lands amounted to nearly 394 millions of Rx.

16, The following are particulars of works which are still under construc-

Рвојест.	Amount of estimate (direct outlay).	Expendi- ture to end of 1893-94 (direct outlay).	Ultimate area to be irrigated.	Ultimate estimated revenue.	Estimated percentage of net revenue on direct Capital outlay.	REMARKS.
PRODUCTIVE.	Rx.	Rx.	Acres.	Rx.		10 - 10 - 1 M
Chenal Canal (complete project of 1891).	2,568,417	1,287,475	1,100,000	535,911	16:1	
Sirsa Branch	289,269	222,034	126,290	32,000	11.0	
Periyar Irrigation	847,100	639,625	192,431	72,070	6.6	Revised Estimate sanctioned in Sec- retary of State's Despatch No. 38 P. W., dated 26th
Rushikulya	436,800	337,095	117,250	24,671	- 4'3	July 1894. Second Revised Estimate sanctioned in Secretary, of State's Despatch No., 34 P. W., dated 19th July 1894.

17. The following statement gives particulars of important irrigation projects, the estimates of which had been sanctioned but upon which work had not been begun up to the end of 1893-94 :-

PROJECT.	Amount of estimate (direct outlay)	Ultimate area to be irrigated.	Ultimate estimated revenue.	Estimated percentage of net revenue on direct Capita outlas.	Date of sanction,
	Rx.	Acres.	Rx.	IRLAN BOTH	
Productive Works.					
Jhelum Canal	1,202,407	423,360	154,875	8 2	8th November 1888.
Kalingaroyen channel .	82,500	23,000	6,650	6.7	29th January 1891.
Lower Ganges Canal, Cawn- pore Branch Extension (title since changed to Fatchpur Branch).	342,000	416,000	42,050	8.9	16th March 1893.

18. In reviewing the Revenue Reports of the different Provinces, the Government of India have observed with satisfaction the approval expressed by the Local Governments of the manner in which the officers of the Irrigation Department in general have performed their duties, and the Governor General in Council desires to record his appreciation of the results exhibited by the figures in the Accountant General's note and in this Review of the Irrigation Operations throughout India during 1893-94.

ORDER -Ordered, that the foregoing, with a copy of the note by the

The Accountant General, Public Works Department.

on the margin, for information.

The Governments of Madras, Bombay, Bengal, the North-Western Prolea and Oudh, and the Punjab,
the Chief Commissioners of the Central Provinces, Burma, Assam, and
The Resident at Hyderabad.
The Resident at Hyderabad.
The Agents to the Governor General for Central India, Rajputana, and
Strations in the Double. istrations in the Public Works Department, noted

Ordered also, that a copy of the Review and note be forwarded to the Revenue and Agricultural and Finance Departments, and that the papers be published in the Supplement to the Gasette of India.

Ordered further, that a copy of the Review and note be forwarded to Her Majesty's Secretary of State for India for information.

> JOHN W. OTTLEY, Lieut. Col., R.E., Deputy Secretary to the Govt. of India.

Document accompanying.

Note by the Accountant General, Public Works Department, dated 25th March 1895. Accompaniment to Public Works Department Review, No. 194 I. of 1895.

## Note by R. G. Macdonald, Esq., Accountant General, Public Works Department, upon the accounts of Revenue and Expenditure of Irrigation Works in India for 1893-94.

The figures in the accounts submitted herewith agree with the Finance and Revenue accounts of the Government of India, but in this note certain figures are added from the Administrative accounts of the Public Works Department, Irrigation Branch, the Revenue Reports of Irrigation Works, and the Annual Statement of the Financial Results of Irrigation Operations in India.

2. The irrigation works in India are divided into two main classes, viz., Major Works and Minor Works.

Major Works are sub-divided into-

(a) Productive Works, the Capital of which has been provided from

borrowed money; and
(b) Protective Works, the Capital of which has been provided out of the general revenues of India.

Minor Works are for the purpose of this note sub-divided into-

(a) Works for which Capital and Revenue accounts are kept; and

(b) Works for which Capital accounts are not kept.

3. Capital and Revenue accounts are kept for all Major Irrigation Works. There are 44 projects classed as Major Works-vide statement given in paragraph 12 below.

Of these, 36 were sanctioned as works expected to be remunerative, i.e.,

North-Western Provinces and Oldh. Betwa Canal.
 Punjab.
 Swat River Canal. Mudras. 3. Rushikulya Project. Bombuy, Deccan and Gujarat.

4. Nira Canal.

5. Mhaswad Tank.

6. Chankapur Tauk.

7. Maindevi Tank.

† Gokak Canal, 1st section.

estimated to pay the cost of up-keep and interest on the Capital outlay. They were or are being constructed from funds provided from sources outside the general revenues. The remaining eight projects. were sanctioned as works of protection against famine, and the cost of their construction has been or is being paid for out of annual grants made from the general revenues under the head of famine insurance.

# 1 Now classed as a minor work and combined with the Gokak Storage Works,

4. The works classed as Minor Irrigation Works are numerous. and Revenue accounts are kept for 75 separate projects of this class; for the others only one account of receipts and charges for each work or group of works is kept. It has lately been decided that Capital and Revenue accounts shall be kept of all new Minor Irrigation Works, the estimated Capital outlay on which is more than Rx. 5,000 inclusive of Establishment and Tools and Plant charges, provided there is good reason to anticipate that the revenue derived therefrom will more than cover the working expenses

5. The general results of works for which Capital and Revenue accounts are kept are as follows:—

		NAME OF TAXABLE PARTY.				THE RESERVE OF THE PARTY OF THE
	M	Rx.	N	Rx.		Total. Rx.
	55	780,660		85,512	Mirina)	866,172
37523	. 8	31,031,280		4,824,615		85,852,895
94.						
	239	2.130,271		560,806	100	2,691,077
10000	100	THE PARTY OF THE P		The state of the s		1,104,401
100				MINISTER OF STREET		1,586,676
		PUT DECEMBER OF THE PERSON NAMED IN				
erest	on		The same		37	
50.00		89,097		900000		
e of t	he					
y to e	nd			4.00		
	*0 III	4.04	200	. 6.89		4.42
	1 93	4.59		6.48		4.84
		4.58		3.05		4.11
	erest	94.	780,660 31,031,280 94. 2,130,271 875,620 1,254,651 1,165,554 erest on 89,097 e of the y to end 4.04 4.59	Rx.  780,660 31,031,280 94.  2,130,271 875,620 1,254,651 1,165,554 erest on 89,097 e of the y to end 4.04 4.59	Rx. Rx. 780,660 85,512 31,031,280 4,821,615 94. 2,130,271 560,806 228,781 1,254,651 382,025 1,165,554 erest on 89,097 e of the y to end 4.04 6.89 4.59 6.48	Rx. Rx.  780,660 85,512  31,031,280 4,821,615  94.  2,130,271 560,806  875,620 228,781  1,254,651 382,025  1,165,554  erest on  89,097  e of the  y to end  4.04 6.89  4.59 6.48

The sudden decrease in the percentage of net revenue derived from Major Irrigation Works is due to a falling off in revenue as explained in the succeeding paragraph. The improvement in the return from Minor Irrigation Works is due chiefly to the development of irrigation in Madras.

- 6. As compared with 1892-93 the net revenue from Major Irrigation Works shows a falling off in 1893-94 of Rx. 132,709. The decrease occurred chiefly in the Punjab and in Bengal. In the Punjab it was due to heavy rainfall and to a large amount of water and owners' rates on the Western Jumna Canal remaining unrealized at the end of the year. In Bengal the decrease was nominal, as the revenue of the previous year had been abnormally swollen by the recovery of arrears of water rates.
- 7. The net revenue from Minor Irrigation Works is shown at Rx. 332,025, against Rx. 306,971 in the previous year. The figures of 1892-93 included a sum of Rx. 78,047 on account of irrigation revenue for 1891-92 from certain works in Madras which was communicated by the Board of Revenue too late for inclusion in the accounts of 1891-92, vide para. 7 of my note on the accounts for 1892-93. Excluding this special item the figures compare as follows:—

		2 2 3	N/M	ALL DOD	- X	adre		1811/42		Rx.
1892-93				1		100				228,921
1893-94				20.		**	0.01415.0	1.00	3 4	882,025
				*			Iner	PARA		108 101

The increase in revenue is explained in paragraph 43 below.

- 8. The capital spent on the Periyar project, which has not yet commenced to earn revenue, is included in the figure upon which the revenue percentage in paragraph 5 above is calculated. The Chenab Ganal, the Sirsa Branch of the Western Jumna Canal, the Rushikulya project and other canals which have been recently opened for irrigation are not as yet bringing in a revenue in any way approaching the estimated ultimate return. Making due allowance for all this, the results must be looked upon as very satisfactory.
- 9. The receipts and charges of the year 1893-94 on Revenue account, exclusive of the figures relating to Minor Works for which Capital accounts are not kept, are detailed in the following statement by funds and provinces.

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7	75	,	

	Yet. Profit.	Rr.	-225,003 150,463 13,408 209,583 7,284	155,790	8,799	146,391	-19,861 2,093 -12,018 -28,612	-57,898	89,093	9,622 2,659 77,665 10,413 50,642 80,963 88,768	320,740	13,184	11,285	332,025	421,118
	Interest	Rx.	287,120 282,435 261,046 226,585 76,303	1,083,393	890'6	1,092,461	15,979 13,978 12,683 30,457	78,097	1,165,558	1171111		i <sub>d</sub> i			1,165,558
TOTAL.	Net revenue,	Br.	12,117 432,897 274,514 436,168 83,487	1,239,183	269	1,239,452	3,382 16,071 665 1,845	15,199	1,254,651	9,622 2,659 77,666 8 10,413 60,642 80,963 88,768	820,740	13,184	11,285	332,025	1,586,676
	Main- temande and working,	Br.	148,464 261,715 284,985 151,661 43,370	840,195	5,650	845,845	16,751 9,521 1,092 8,411	29,775	875,630	4,571 2,232 18,082 620 15,652 73,858 16,373 47,071	177,409	38,527 12,845	51,372	328,781	1,104,401
	Gross revenue.	Br.	160,681 694,612 509,499 687,829 126,857	2,079,378	6,919	2,085,297	7,369 25,592 1,767 10,256	44,974	2,130,271	14,198 4,891 95,697 628 26,066 124,500 96,336 185,839	498,149	61,711 10,946	62,657	560,806	2,691,077
	Net revenue.	Rr.	44)41	1	,		1111	1	1	-digitii	. :	11	1	1	
LOCAL.	Maige tenance and working.	Rx.	11111	1	,		1111			1111111		4.1		"	:*
	Gross revenue.	Rr.	11111	1 1	1		1111			********	1	11	1.		1
	Net Profit,	Br.	224,848	-201,226	-6,914	-208,140	1111		-208,140	77,665 10,413 80,963 2,459	171,508	13,184	11,285	182,793	-25,347
	Interest.	Rr.	236,965	528,742	7,183	535,925	1111		535,925	1111111	100	11	15	1	635,925
PROVINCIAL.	Net revenue.	Bx.	315,399	327,516	569	827,785	1111		327,785	77,665 8,10,413 80,963 2,459	171,508	13,184	11,285	182,793	510,578
4	Main- tenan co and working.	Rt.	148,464	410,179	6,650	415,829	1111		415,829	18,032 620 15,652 15,873 605	50,282	38,527 12,845	51,872	101,654	517,483
	Gross revende.	Bx.	160,581 577,U4 	737,695	6,919	748,614	,1111	-	743,614.	26,065 96,336 96,336 8,064	221,790	61,711	62,657	284,447	446,465 1,028,061
	Net Profit.	7	126,840 13,468 209,583 7,284	357,016	-1,885	355,131	-19,361 -2,093 -12,018 -28,612	-57,898	297,233	2,622 2,659  60,642 86,309	149,232	11	1	149,232	416,465
	Interest.	Br.	155 9.342 261,046 226,585 76,203	554,651	1,885	556,536	15,979 13,978 12,683 30,457	73.097	629,633	(i bi ti jî	1	1:		1	629,633
Incremtage.	Net revenue.	Rx.	117,498 274,514 436,168 83,487	911,667	1	911,667	-3,382 16,071 665 1,845	15,199	956,866	9,622 2,659  60,682 86,309	149,232		1	149,232	1,076,098
Port 18	Main- tenance and working.	Bx.	234,985 151,661 43,370	430,016		430,016	10,751 9,521 1,092 8,411	29,775	459,791	4,571 2,232  73,858 46,466	127,127	1:	1	127,127	816,985
Speller S	Gross Berenue,	Rr.	117.498 509.499 587,829 126,857	1,341,683		1,341,683	7,369 25,592 1,757 10,256	44,974	1,386,657	14,193 4,891  124,500 132,775	276,359	11	*	276,359	1,663,016 586,918
		PRODUCTIVE.	Bengal NW. P. and Oudh Purjab Madras Fombay	Stores unappropriated .  Toral .	Navigation.	TOTAL PRODUCTIVE .	N.W. P. and Oudh Punjab Madras Bombay	TOTAL PROTECTIVE	WORKS .	Frigation.  Rajputana Baluchistan Lower Burma Hengal N.W. P. and Oudh Punjab Madras Bombay	TOTAL .	Bengal Madras	TOTAL MENOD	WORKS	" GRAND TOTAL

- 10. This table shows that after paying interest on borrowed money expended in the construction of Major Irrigation Works, the highest net profits are, as in the previous two years, obtained from the irrigation projects in Madras. Next follow the North-Western-Provinces and Oudh, the Punjab, and Bombay.
- 11. One prominent feature in the table is the loss arising from the canals in Bengal; another is the small amount of net profit derived from the irrigation works in the Punjab and the large sum derived from those in Madras.

In Bengal the loss is due to the permanent settlement on account of which the land revenue cannot be enhanced. No credit is given to canals on account of this item.

In the Punjab the revenue is gradually increasing, owing to several irrigation works having been completed, but the falling off in 1893-94 is due to the causes explained in paragraph 6, ante.

In Madras the large profit is attributable chiefly to the growth of revenue from the Godavari, Kistna and Cauvery Deltas and certain other projects which have either been completed or are approaching completion.

### Major Works.

12. The following statement shows in detail the financial results of individual Major Irrigation Works during and to the end of 1893-94.

PRODUCTIVE. BESGAL. Irrigation. Orissa Project Midnapore Canal Sone Project	Br. Rr. 2,532,670 826,132 2,595,515	Carrata ocertar to men own 1800-04,  R. R	Rx. Rx. 2,589,759 844,547 2,686,994 6,121,300	Gress revenue, R.c. 37,537 30,477 92,567	B. B	Re.	Ex. Rx. 100,593 33,040 103,487	Rx116,604 -23,382 -85,017	Recentage of order or revenue on revenue order or	Green revenue, Bx. Bx. 492,451 479,790 1,240,947 2,213,188	Rankus Account  Malutanece Net and accribing.  Rx.  Rx.  Rx.  800,458 456,133 1,141,341 2,305,932	Rr 817,00 24,66 1199,66 - 92,74	Br. Inkrest. 77 1,866,762 77 1,865,330 6 1,865,330 6 4,439,087	Rx. Rx2.183,769 -682,338 -1,665,721
Navigation. Hidgellee Tidal Canal	226,274	5,649	231,923	6,919	5,650	12,383	9,068	-233,802	11. 61.	2,317,602	91,410	13,004	174,581	4,003,408
N. W. PROVINCES AND OUDH.  Irrigation. Gauges Canal Lower Ganges Canal Agra Canal Eastern Jumna Canal	2,725,611 3,172,266 857,677 328,926	169,576 233,289 67,652 20,701	2,805,187 8,405,555 925,329 8,340,627	323,508 202,071 48,952 120,691	113,458 86,316 27,288 34,663	209,440 115,755 21,664 86,038	108,771 126,292 34,235 13,137	100,669 10,637 12,571 72,901	24.40. 24.40.	6,744,659 8,404,896 883,513 2,890,935	2,983,132 1,519,421 445,420 941,307	3,761,527 1,885,474 488,098 2,049,628	3,615,497 2,186,226 689,526 637,426	146,030 -280,752 -261,733 1,612,802
Total NW. P. and Oudh . PUNJAB. Irrigation.	7,084,480	491,218		694,612	261,715	432,897	282,435	150,462	3.81	14,024,002 5,846,567 5,900	1,821,459	4,025,108	949.216 19,169	3,075,892
Sira Brach Bari Doab Canal Sirbind Canal Lower Solug and Para Canal Chemb Canal Sidhnai	222,034 1,658,804 2,282,904 67,261 1,287,475 94,962	9.383 63.470 117,529 2,719 29,576 8,200 106	231,417 1,722,276 2,400,433 69,973 1,817,051 98,163 1,074	5,309 222,543 108,524 9,731 88,401 26,718	8,752 69,883 62,042 9,198 33,073 7,979	163.169 163.169 46,482 623 5,328 18,739	7,988 65,331 90,909 2,691 46,909 3,770 38	97.829 -44.627 -2.168 -41.581 14,969	1947 1940 1960 	3,964,914 1,090,516 1,090,518 1,094,494 141,498	1,670,972 471,611 62,611 104,796 54,623	2,293,942 619,015 -2,173 -13,852 86,975	1,905.257 1,381,110 22.211 180,068 28,758 160	388,685 -762,106 -24,381 -193,920 -160 -160
Total Punjab	6,705,530	281,114	6,986,644	609.499	234,985	274,514	261,046	13,468	3-83	11,100,086	4,184,524	7,005,562	4,485,939	2,519,623

		Os Petral ou	OAPITAL OUTLAY TO AND OF 1893-94.	1803-04	AL L	Re	RAVENUE ACCOUNT FOR 1503-94.	, son 1503-94.				REVERUR ACCOUNT	OUNT TO MAID OF ESSURE	Bereit	
	AJOR WORKS,	Direct.	Indirect.	Total	Gross	daintenance and working.	Ned tortieme.	Interests	Net Profit.	Percentage of net revenue on the Capital outlay.	Gross revenue.	Maintenance and working.	Net royenue.	Interest.	Net Profit,
		Bx.	Rx.	Re.	Br.	Ri .	.Br.	. B.	Rr.	Br.	Bx	Rx.	Re.	Br.	Bx.
	MADRAS.				***									1.74.00	* 900 SAG
Godava Kistna Penner	Godavari Delta System Kistna Ponnar Animit	1,091,356	189,510 76,983 24,883	1,280,866 1,119,591 188,500	241,462 200,909 16,370	61,588 58,892 2,745	179,874 142,017 13,625	43,649	136,235 101,076 7,087	14-04 12-68 7-23 45-76	5,795,788 3,290,028 297,528 2,283,449	1,774,534 1,065,766 52,396 163,157	4,021,254 2,224,262 245,132 2,120,292	779,284 162,969 166,894	
Cauvery Delta Srivaikuntham Sangam Aniou	Cauvery Delta Srivaikuntham Aniout System Sangam Anieut Project	185,421 135,640 306,696	12,336 19,081 68,503	145,721 145,721 375,199	87,262 10,460 17,524	2,541 5,232 14,284	7,919	5,415 12,164 86,714	2.504 138 -88,054	3.28	173,571 89,640 114,053	39,672 39,672 194,377	116,496 49,968 	115,043 115,043 996,188 12,753	—65,075 —1,076,512 —12,362
Karnul Canal Barar Tank Periyar Proje	Karnul Canal Barur Tank Paritan Project	39.698 . 639,625	2,226 17,043	41,924	806	476	432	1,587	-1,155	1-03	3,080		1	69,823	
	otal Madras	5,753,831	401,697	6,155,528	687,829	151,661	(a)436,168	226,585	209,583	7.09	12,047,145	3,349,674	8,697,471	3,589,154	5,108,317
	BOMBAY.	*											•		la la
	Irrigation. al	122,358 48,424 162,561 577,170	4,067 1,293 4,842 20,357	126,425 49,717 167,408 597,627	4,784 5,440 34,585 47,194	9,026 1,215 5,932 14,305	4,243 4,225 28,653 32,889	4,894 1,671 6,503 22,336	-9.136 2.654 22,150 10,563	8-50 17-12 6-60	228,053 40,822 554,200 762,070	91,137 13,648 233,832 326,101	136,916 27,174 32,1,368 435,969	75,434 12,196 134,528 453,326	6 61.482 14.978 6 (c)186,840 6 —17,357
	Sind		30,559	941,072	92,003	30,478	(6,61,525	* 35,404	26,121	6.54	1,585,145	664,718	8 920,427	675,484	214,943
7 . Dr	DECCAN AND GUSARAT.														
Hadhu	Irrigation. Hallmust Caral Longe Funzion Rivor Works	49,093	2,280	51,840	970	602	368	1,964	-1,596 -1,594 -1,634	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	9,442	15,786	6,344 112,391 -8,628	4 41,411 (0,129 85,641	11 —47,755 29 —27,738 11 (4) —44,169

Kadya Krye, World Mutha Canals Kriehna Canal Ekruk Tank		624,243 624,243 81,829 122,812	2,866 23,226 4,505 11,327	72,242 647,469 86,334 134,039	1,187 24,792 3,683 2,380	790 6,721 1,300 2,641	397 18,071 2,383 —261	21,729 3,263 4,912	-2,374 -6,658 -880 -5,173	2-79 2-79 2-76	13,698 293,363 56,840 25,124	12,064 120,869 42,837 38,511	172,494 172,494 13,003 -13,387	489,139 489,139 84,799 117,527	-38.600 -316,645 -71,796 -130,914
I Deccan an	Total Deccan and Gujarat 1,026,400	1,026,400	48,795	48,795 1,075,195	34,854	12,892	21,963	40,799	-18,837	2.04	425,913	254,750	171,163	848,780	419,779—
TOTAL BOMBAY	ЗОЖВАТ .	1,936,913	79,354	79,354 9,016,267	126,857	43,370	83,487	76,203	7,284	414	2,011,058	919,468	1,091,590	1,524,264	-432,674
Total Productive	Irrigation .	Irrigation . 27,435,071 1,420,366 28,855,437 Navigation . 226,274 5,649 231,923	1,420,366	28,855,437	2,079,378	840,195	1,239,183	1,083,389	155,794	4.29	41,485,479	16,648,878	24,836,601	20,947,419	3,889,182
	. Total .	27,661,345 1,426,015 29,087,360	1,426,015	29,087,360	2,085,297	845,845	1,239,452 1,092,457	1,092,457	146,995	4.26	41,589,893	16,740,288	24,849,605	21,122,000	8,727,605

(a) Excludes revenue due to old irrigation, which is as follows:-

	Rx. 11,550 6,610 8,700 206,830 6,550 11,400	251,925
100	7 2 7	25
WOTKIBE.	83.000 8,000 29,670 1,350 2,500	37,775
	Br. 12,400 7,100 11,700 236,500 7,900 13,900 200	289,700 -
105		4.3
915		
	odavari Delta System istna " nner Anicut ", ivalkuntham Anicut Sy ungam Anicut Project	

(b) Excludes revenue due to old irrigation, which is as follows :-

2,795
016
3,705
•
13126

(c) Exclusive of Rx. 4,386 which was erroneously credited to the canal in previous years in excess of the irrigation share of land revenue.

(4) Includes Rx. 146 on socount of revenue from Galpir land from 1882-83 to 1892-93 which is now treated as land revenue and added to the figures in the administrative of 1892-93.

	Çanızı	CAPITAL OUTEAN TO END OF 1803-94.	D or 1803-94.			SAVEST ACCOU	BAVANT ACCOUNT FOR 1893-94,				* BSTERUR AC	Вачения Ассотяе то или от 1865-94.	1883-94	•
Major Works.	Direct,	Indirect,	Tour.	Gross revenue,	Maintenance and working.	Net revenue,	Interest.	Net Profit,	Percentage of net revenue on the Capital outlay.	Gross revenue.	Maintenance ard working.	Net revenue.	Interest.	Net Profit,
PROTECTIVE. TA.W. PROVINCES AND	Rr.	Bx.	Bx.	B.	Bx.	Br.	Rx.	Rx.	RE	Rx.	Rr.	Rr.	Rr.	R.
Jerigation. Fetwa Chaal	400,506	6 21,438	421.944	7,369	10,751	-3,382	15,979	-19,361		53,228	83,190	-29,962	167,481	-197,443
PUNJAB. Irrigation. Swat River Canal	350,496	13,922	363,418	25,592	9,521	16,071	13,978	2,093	4.42	160,595	77,308	83,387	169,108	-86,721
MADRAS.  Irrigation. Rushikulya Project.	837,095	30,350	367,446	1,757	1,092	865	12,683	-12,018	18	1,757	2,057	-830	63,019	-63,349
BOMBAY.  DECCAN, AND GUZARAE.					1 37 1			1 400				7 .		901000 113 207
Irrigation. Gokak Canal, 1st Section	40,094	1,173	41,267	. (9)	(9)	(9)	1,604	109,1-		* 2,474	2,100	374	19,298	-18,924
Mhaswad Tank	. 198,152	6,973	204,225	2,503	2,206	297	7,912	-7,615	.15	11,895	12,062	-167	88,953	-89,120
Nira Canal	6385	15,832	635,308	7,753	6,205	1,548	20,550	-19,002	-39	29,208	28,934	274	194,745	-194,471
Maladevi Tank	3,396	216	3,612	L.L.			136	-136			000 13.4 14.0 14.0 15.0		1,258	-1,258
Total Bombay	. 767,503	.23,610	791,113	10,256	8,411	1,845	29,467	-28,612	-23	43,577	43,096	481	307,389	-306,908
TOTAL PROFECTIVE	1,855,600	88,320	1,943,920	44,974	29,775.	15,199	73,097	-67,898	78	259,157	205,581	53,576	266'969	643,421
GRAND TOTAL	. 29,516,945	1,514,335 31.031.280	-	2,130,271	875,620	1,254,651	1,165,554	89,097	404	41,849,050	16,945,869	24,903,181	700,818,16	8,084,184

13. Taken collectively by provinces the percentages of net revenue on the Capital outlay upon Major Works for the last three years are as follows:—

	1893-94.	1892-93,	1891-92,
1. Madras	6*70	6.46	6-19
2. Bombay-Sind	6.54	7.65	4.53
3. North-Western Provinces and Oudh	5.87	5.22	5.53
4. Punjab	8.95	6.24	5.65
5. Botobay—Decean and Gujarat	1.27	1.19	1.16
6. Bengal · · · · · ·	.19	*63	.25
Total .	4.04	4:59	4'28

Madras is unfairly weighted with the Karnul Canal which was made by a company and which does not even yet pay its working expenses and maintenance. Without the Karnul Canal the figures for Madras would be :—

La Dollard La Mil							ALC REVISE			Per cent.
1898-94										10.08
1892-93		1	15.00	VC 30	 No the	100			200	9.91
1891-92	100	TO VI	DATE OF	100	170		F10.	PERMIT	3 30 M	9.59

14. The systems which in 1893-94 paid over 4 per cent. are arranged below in the order of the rate paid, and are compared with the results in the two previous years:—

				000013		RATE PART		1
	VIII.	919			1893-04.	1892-93.	1891-92,	P
1. Cauvery Delta System			311		45.76	39.00	36.70	1
2. Eastern Jumna Canal		13/15			24.60	20.14	21.84	1
3. Sidhnai Canal					19.09	14.95	11.10	1
4. Begari Canal .		SECTION.	THE REAL PROPERTY.		17-12	17.71	10.25	l
5. Godavari Delta System 6. Kistna	m .	111	100	4	14.04	13.73	13.39	1
7. Bari Doab Canal					12.68	12.53	12.83	1
8. Unharwah Project					9.47	10.26	7.16	1
9. Penner Anicut .			p 2		8.50	8.81	1.78	1
10. Ganges Canal .	100	5	7.50		7-28	7.40		1
11. Eastern Nara Works	0.36	THE COLUMN			7·23 5·50	7·17 5·92	7.61	4
12. Srivaikuntham Anicut	System	n .			5.43	2.59	5.68	4
13. Swat River Canal			DE.		4.42	5.20	2.81	1
THE RESERVE OF THE PARTY OF THE				September 194	V 100 / 100 / 1	10000		а

15. The systems that have, up to the end of 1893-94, paid off the accumulated interest on the Capital expended on them are noted below:—

									Surplus.
	The state of the s								Rr.
1.	Western Jumna Canal		. 4						3,075,892
2.	Godavari Delta System	n		-	Sec.	1073	100	1.4	2,848,868
8.	Cauvery ,, "							100	1,953,398
4.	Eastern Jumna Canal	-	. 000		-		A KITE	13	1,612,202
5.	Kistna Delta System					UK	1		1,444,978
	Bari Doab Canal				0.06-7	300		966	388,685
	Begari		- 100		a sala	20 mm	11000		185,840
8.	Ganges Canal .	Shell.	O THE ST		324	1/4/12	2261	523	146,030
9.	Penner Anicut System			200				400	82,168
	Desert Canal .						MES		61,482
11.	Sidhnai "	RECO		Laines	Mescale.			200	58,217
	Unharwah	231531	-		1223		1	- 48	14,978
	Srivaikuntham Anieut	System	m	Ways.	-	110000	-	100	2,682
	THE STATE OF THE S	richient		ALVALIA.	46		STORMA		2,000
2	Assuming that the w charged in each case sents a net profit to t these systems of .	to the	Capi	tal acc	ount,	this re	pre-		11,875,415
30	The charge to the State	e on of	ther M	lajor '	Works	is .			8,791,231
33	And this leaves a net p	rofit to	date	on all	Majo	r Wor	ks of		3,084,184

	Date of Completion,	1389-90.	1800-91.	1891-02.	1892-93.	1593-94.
	7	Rx.	Rx.	Rx.	Rx.	Rx.
North-Western Provinces and Oudh.	1878	184,877	241,950	257,544	270,214	280,752
Lower Ganges Canal	1874	236,294	233,674	233,051	239,162	251,733
Agra Canal	1874	230,284	200,074	200,001	200,102	201,700
Punjab.	1.40					atoric co
Sirhind Canal	1887	871,825	854,540	800,557	717,678	762,105
Lower Sohag and Para Canal	1886	9,196	13,442	18,617	22,216	24,384
Chenab Canal		59,192	77,127	106,942	152,338	193,920
Madras.			CONTRACT.			
Sangam Anicut Project	1885	45,797	50,059	64,784	65,213	65,076
Barar Tank	1887	6,566	8,045	9,866	11,207	12,362
Bombay - Sind.				100 mg		
Eastern Nara Works		62,227	51,227	41,222	,27,910	17,357
TOTAL .		1,475,974	1,530,064	1,532,583	1,505,938	1,607,688

Several of these projects are increasing the debit against them when they ought to be decreasing it.

17. The continued steady decrease of accumulation of interest against the Eastern Nara before completion of the project is satisfactory.

The continued increase against the Lower Ganges and Agra Canals is not altogether satisfactory; these canals have been opened 17 and 21 years respectively, and have not yet begun to pay the annual interest charges. The Sirhind, Lower Sohag and Para Canals and the Barur Tank have not been opened for 10 years; further increases may, therefore, be expected as the irrigation from these projects has not had time to develop fully. There is a slight decrease in the debit against the Sangam Anicut project; it has been opened for irrigation 10 years only.

Compared with two previous years the net revenue obtained from the Lower Sohag and Para Canal shows a steady increase, and when full credit is given for the indirect revenue due to its construction, it is expected that the net revenue will more than cover the annual interest charges.

18. The Chenab Canal shows a return of '40 per cent on the whole of its Capital outlay, although irrigation is only very partially developed, and water-rates have been levied on a small portion only of the area actually cultivated, and then only at half rates. It is reported that the return realized on this canal has been greatly in advance of the forecasts of 1891, while the area irrigated in 1893-94 was nearly double that originally anticipated. This indicates that the returns from the canal will rapidly increase when full rates are realized from the total area irrigated, and that the accumulated interest charges should soon disappear.

19. The total loss to the State on account of works entered in the above table has increased by Rx. 101,750 during 1893-94. But if the figures of the Chenab Canal are excluded, the loss would amount to Rx. 60,168 only, which may be attributed principally to a falling off in the collections from the Sirhind Canal in consequence of seasonable rainfall.

20. The undernoted works, which were allowed to be constructed from borrowed money prior to the introduction of the rules laying down the conditions which must now be fulfilled before a work may be classed as Productive, are not expected to repay the accumulated interest charges on the Capital invested in

	Capital outlay to	Ne	T GAIN OR L	ORS IN WORL	CING BACH Y	EAR,
	end of 1893-94.	1889-20.	1890-91.	1891-92.	1892-93.	1893-94.
Bengal—	Rx.	Rx.	Rx.	Rx.	Rx.	Rx.
Orissa Project Midnapore Canal Some Project Hidgellee Tidal Canal	2,589,759 844,547 2,686,994 231,923	-15,279 6,862 15,104 1,523	-12,267 2,813 2,707 -2,553	5,216 1,837 20,823 -1,377	—813 8,445 30,133 2,030	-16,011 9,658 18,470 269
Bombay, Deccan and Gujarat-						
Hathmati Canal Lower Panjhra River Works Kadva River Works Lakh Canal Mutha Canal Ekruk Tank	51,840 46,133 72,242 37,188 647,469 134,039 86,334	-126 787 566 -226 11,918 351 1,239	71 626 310 235 13,776 1,099 1,749	387 572 1 -135 16,207 1,234 2,078	-40 660 199 -199 13,480 -153 4,164	368 1,230 397 —226 18,071 —261 2,383
TOTAL .	7,428,418	22,719	8,096	36,411	57,906	34,348

The Karnul Canal in Madras, which was purchased from the Madras Irrigation and Canal Company in 1882, does not appear likely to be ever a financial success.

21. The sources from which the revenue of the Major Works was derived during 1893-94 are exhibited in the following statement in comparison with

those of the four previous years :-

	Issa.ov.	Br.	150,448	555,849	496,680	513,347	136,519	1,852,836				
OR PREFICUS POUR YMANS	1890-91.	Bx.	133,914	819'129	583,045	530,037	127,277	2,025,891				
Totals or PRETIC	1801-02.	Bx	159,860	705,195	604,099	525,711	,114,498	2,109,363				
10	Isseon.	Rs.	188,335	685,771	680,914	565,424	147,610	2,268,054				
	.laloT	Rx.	168,500	701,981	535,091	589,586	137,113	2,130,271	2,268,054	2,109,363	2,025,891	1,852,836
	Miscellaneous.	Rr.	5,666	3,246	1,746	256	2,397	118,811	14,624	11,869	10,426	9,783
	Fines.	Rr.	O1	1,359	250	ю	-	1,917	2,588	2,491	2,653	2,30
	Rents of buildings,	Rr.	1,480	299	1,088	368	49	3,302	8,193	3,010	2,719	2,859
	Navigation receipts.	Br.	87,714	1,704	5,803	13,809		69,030	54,347	61,857	52,853	55,655
	Water-power,	Br.	86	5,063	14,495	1	009	20,256	20,679	21,727	20,635	18,721
	control tames vedico	Br.	229	1	2,364	2,196	1,062	5,851	6,437	4,608	4,966	4,700
	Plant Clons.	Rx.	247	16,578	4.810	1,656	201	23,492	25,043	27,965	22,649	25,468
*BUA	Water-supply of tow	Rr	1	160	* 105	299	9,744	10,574	11,754	10,818	10,059	160'01
	Sale of water.	Bx.	78	524	3,242	1	389	4,243	4,188	3,830	4,220	4,198
	Owners' rates on Irrigated lands.	Br.	*	32,334	28,911	ı		61,245	926,99	80,336	80,194	59,103
IRRIGATION RAYBEEN.	- Bolar-votaW	Rr.	120,986	523,216	450,078	11,267	36,316	1,141,863	1,298,206	1,174,901	1,070,709	935,438
Integ	Share of cuhanced land revenue due to irrigation works.	Rr.	ľ	117,498	21,899	559,464	86,326	785,187	760,020	706,451	743,808	724,610
				upa	•	•	•					
				North-Western Provinces and Oudh				Total for 1893-94	1802-03	1801-92	1890-91	1889-90
1970				ern Pr		LUTILWO SEARCH		Total				
			Bengal	North-West	Punjab	Madras	Bombay					

The share of land revenue and the water-rates are increasing with the extension of the canals and other works; but the sale of water, the water-supply of towns, and the supply of water-power are not showing the improvement which might be expected.

23. The increment in Bengal, in the Punjab, and in Bombay was checked in the year under review; but the North-Western Provinces and Madras show steady upward progress.

24. The increase in the North-Western Provinces was chiefly due to an extension of irrigation from the Eastern Jumna Canal. The increase in Madras is ascribed mainly to expansion of irrigation in the Kistna Delta and to the recent revision of the rates of assessment on the Cauvery Delta System.

25. In Bombay the decrease is attributable chiefly to failure of water in the Desert Canal in consequence of which remissions had to be granted and to damage done to crops by hail-storms and locusts. The receipts from the Begari Canal were also reduced.

26. The following statement shows, for each Major Work for the five years ending 1893-94, the gross revenue and the irrigated area, and the mileage of canals completed at the end of each year:—

Major Works.	1580-00.	(3)	Gnoss Raymur.	1960-63.	1863-04.	1589-90.	Intitation Intitation International Internat	Indicate and in action   18   18   18   18   18   18   18   1	1862-03.	1 905-9 4.	Milwags	GS IN OPERATION 1590-01.	1891-92.	(18CEUDISG DREENBULARIES), [591-92. 1892-08. 18	
Bengal.  Orissa Project Midnapore Ganal. Hidgellee Tidal Canal. Sone Project	Rx. 30,412 27,743 4,195 88,098	Rx. 34,494 23,699 2,804 72,917	Rr. 87,092 28,470 3,691 90,607	Rx. 49,738 28,000 5,339 105,258	Rx. 37,537 30,477 5,919 92,567	Acres. 186,627 68,810 305,282	Acres. 180,299 82,002 281,014	Acres. 177,685 83,973	Acres. 160,952 91,217 410,761	Acres. 103,526 85,763 366,776	Miles. 1,024 355 29 1,561	Miles. 1,017 355 29 1,653	Miles. 1,167 345 29 1,560	Miles. 1,221 355 29 +1,575	
Total Bengal	150,418	133,914	159,860	188,335	166,500	560,719	543,315	736,381	662,930	556,065	2,969	2,964	3,101	3,180	
North-Western Provinces and Oudh. Ganges Canal Lower Ganges Canal Agra Canal Esstern Jumna Canal	253,720 153,986 54,934 85,626	815,225 161,293 61,239 106,413	330,420 198,958 59,937 105,797	319,385 201,419 54,188 102,442 8,337	322,898 202,071 48,952 120,691 7,369	807,574 499,894 178,254 243,817 24,583	821,652 642,632 152,118 237,422 33,953	832,864 660,963 164,981 223,437 30,606	722,478 584,009 107,054 227,430	656,757 525,853 105,220 201,664 18,804	4,006 3,089 7,50 1,112 613	4,013 8,194 748 1,116 538	4,077 8,353 7,56 1,120 544	4,159 8,477 759 1,138 657	The second secon
Total North-Western Provinces and Ough	555,842	651,618	706,196	685,771	701,981	1,753,821	1,887,777	1,912,851	1,663,393	1,568,298	9,470	809'6	9,849	10,084	6. (PHO 000 ALTINO
Punjab.  Western Juman Canal Sirsa Brauch Bari Doab Canal Sirhind Canal Lower Schag and Para Canal Chenab Canal Sidhnai Swat River Canal	117,441 182,068 183,864 8,295 7,710 22,406 24,896	162,051 198,320 168,426 6,391 9,785 18,024 25,048	150,923 194,531 201,490 5,925 10,404 20,457 20,457	242.840 242.840 242.966 8,446 20,850 21,161 28,918	98.283 5,309 522,543 108,524 9,721 38,401 26,718 25,592	419,968 523,409 488,981 63,223 39,308 109,082 91,195	388,505 535,045 600,162 38,604 52,390 122,525 88,875	397,347 8,092,785 685,610 66,908 85,594 157,514	243,436 12,862 667,896 412,791 70,130 157,197 151,838 104,723	287,279 43,528 640,657 275,807 71,179 270,405 161,427 110,819	1,191 1,411 2,768 136 302 144 144	1,191 1,410 2,764 136 874 204 204 162	1,202 1,410 2,874 139 670 163	1,206 84, 1,413 8,038 1,39 1,39 1,50 1,62	
. Total Punjab .	496,680	583,045	604,099	680,914	535,091	1,735,166	1,826,106	1,963,041	1,720,872	1,750,591	6,105	6,241	6,721	6,934	
Madrae. Andarari Delta Sratem	808716	240,099	249,943	258,454	253,863 268,000	672,289	680,495	732,364 480,728	697,388	721,740	2,224 1,063	2,243	9,384 1,943	2,394	

SUPPLEMENT
TO
THE
GAZETTE
OF IN
NDIA,
AUGUST
ITE
7, 18
1895.

Srivalkuntham Anient System Sangam Anient System Karnul Canal Barur Tank	18,356 25,723 7,560 466	911,382 13,640 27,655 11,926 740	309,595 18,910 14,832 14,272 748	310,985 13,800 31,000 14,828 926	323,762 18,359 31,424 12,944 1,108	1,010,698 39,785 64,926 21,851 1,712	1,013,344 28,896 68,224 24,818 2,774	35,052 1,008,059 41,322 39,209 73,500 2,757	73,051 1,012.049 29,111 74,987 30,766 3,584	70,346 996,055 40,570 74,960 31,424 4,324	142 1,678 90 252 503 27	2,094 2,094 90 259 503 29	142 2,094 90 280 503 29	2,094 90 280 503 29	142 2,094 90 293 503 32
Rushikulya Project	•				1,757		<b>"</b>	•••	4,182	8,195	. "		41	82	84
Deduct old Irrigation revenue.	802,147 288,800	819,737 289,700	815,411 289,700	855,124 289,700	879,286 289,700	2,311,357	2,346,733	2,413,591	2,396,520	2,460,192	5,978	7,299	7,506	7,557	7,575
Total Madras .	513,347	530,037	525,711	565,424	589,586					- 1					
Bombay.															
SIND Clesert Canal	19,763 4,668 29,389 49,551	17,076 4,573 23,844 45,579	2,582 - 1,554 26,146 43,501	* 12,827 4,736 36,882 48,037	4,784 5,440 37,946 47,538	127,579 33,840 183,479 285,213	124,919 20,690 144,053 228,292	60,131 19,283 174,718 211,951	95,156 23,277 192,524 243,412	89,568 32,634 (a)207,383 228,903	190 67 176 273	190 67 176 273	190 67 176 278	192 67 176 278	* 192 67 176 278
Deduct old Irriga- tion revenue.	103,371	91,072	73,783	102,482	95,708 3,705	630,111	517,954 	466,083	554,369 	558,488	706	706		713	713
Total Sind .	103,371	91,072	73,783	102,482	92,003	630,111	517,954	466,083	554,369	558,488	706	706	711	713	713
Hathmati Canal Lower Panjhra River Works.	520 1,596	737 1,514	1,037 1,801	516 1,617	970 1,725	2,349 2,293	3,766 2,390	2,716 2,603	2,728 2,617	3,701 3,000	46 45	51 45	51 45	51 45	51 45
DECCAN  Kadwa River Works  Lakh Canal  Mutha Canals  Ehrok Tank  Krishna Canal	1,033 205 20,591 1,674 2,958	963 125 21,757 2,482 3,077	844 170 24,693 2,611 3,188	1,030 96 22,405 2,551 5,735	1,187 117 24,792 2,380 3,683	3,090 322 13,338 2,534 3,732	2,227 433 11,201 2,598 3,950	2,971 508 14,061 3,137 5,374	2,825 158 6,797 3,038 3,796	3,027 343 8,259 2,889 4,742	36 10 155 48 61	36 18 155 48 61	36 31 155 48 61	39 29 155 48 . 61	39 26 155 48 61
Gokak Canal, 1st section Nira Canal Mhaswad Tank	2,754 1,817	3,608 1,942	4,449 1,922	8,550 2,638	7,753 2,503	21,930 6,791	16,913 7,106	28,863 8,304	18,246 4,997	24,503 5,283	198 90	205 95	215 95	220 95	228 95
Total Deceau and Gujarat	33,148	36,205	40,715	45,128	45,110	56,379	50,584	68,537	45,202	55,747	689	714	737	743	748
Total Bombay	136,519	127,277	114,498	. 147,610	137,113	686,490	568,538	534,620	599,571	614,235	1,395	1,420	1,448	1,456	1,461
GRAND TOTAL .	1,852,836	2,025,891	2,109,363	2,268,054	2,130,271	7,047,553	7,172,468	7,560,484	7,043,286	6,949,381	25,917	27,532	28,625	29,211	29,992

## 1180 SUPPLEMENT TO THE GAZETTE OF INDIA, AUGUST 17, 1895.

27. The rate of revenue per acre irrigated during 1893-94 is shown in the following table, and the irrigation revenue shown here includes the share of enhanced land revenue due to irrigation as well as the water-rates and owners' rates:—

			2211	Irrigation		Rate of	COMPARED !	WITH BATE IN
Province.			A STATE	revenue. (Assessed.)	Irrigated acreage.	revenue per sere.	1892-93.	1891-92.
				Ta.	Acres.	Rr.	Rx.	Rx.
Bombay, Deccan and Gujara				33,937	55,747	-61	*58	-48
North-Western Provinces and	Oudh			664,700	1,568,298	-42	.36	*34
Madras				925,501	2,460,192	*38	-35	-33
Punjab				609,768	1,750,591	-35	-32	-31
Bengal				102,022	556,065	18	18	*19
Bombay-Sind			1	98,597	558,488	.18	*19	∉16
	Tor	AL		2,434,525	6,949,381	*35	*32	*31

There is an increase everywhere except in Bengal and Sind.

28. The charges for maintenance and working for the year 1893-94 are detailed in the following statement and compared with the outlay of the previous four years:—

I PROPERTY.			A CHOICE		211/2			rodosi	17, 100	STATE OF THE OWNER, STATE	. 118
1889-90,	Rr.	142,236	261,641	211,412	139,839	48,677	808,805		180 2-19		
1800-01.	Br.	143,213	274,291	217,869	167,597	46,981	839,451				
1591-92.	Rr.	143,793	267,974	225,193	150,024	54,010	840,994				
1892-93.	Rx.	148,540	270,722	245,163	158,531	57,738	\$69°088				
TOTAL.	Rx.	154,114	272,466	244,506	152,753	182'19	875,620	\$80,694	766'978	839,451	803,805
charges.	Rx.	9,358	18,670	15,886	7,536	1,551	53,001	61,726	48,110	48,868	45,729
charges	Rx.	144,756	253,796	228,620	145,217	50,230	822,619	828,968	792,884	790,583	758,076
	Rx.			ı	A	1		1			Ť
loss.	Rr.	01 1	1	i.			1		83	122	119
. plant.	Br.	10,470	3,793	2,865	9,442	778	27,414	23,023	24,962	22,485	22,416
ment.	Rx.	66,848	136,212	118,174	75,124	21,434	412,792	401,554	370,115	378,602	857,636
repairs.	Rr	62,754	94,423	101,745	54,610	26,618	340,150	343,465	339,657	327,448	312,498
provements.	Rr.	4,684	19,368	10,836	6,041	1,884	42,263	60,926	58,127	61,926	65,556
					100					•	•
*			à				Fotal for 1893-94	1892-93	1891-92	1890-91	1889-90
								V			
			vinces and								
Toll		•	estern Pro								
		Bengal	North-W.	Punjab	Modras	Bombay					
The state of the s	repairs, ment, plant, loss, Suspanse, charges, charges, Toxax, 1862-93, 1861-62, 1860-91,	Rx.         Rx. <td>R.         R.         R.&lt;</td> <td>Rx.         Rx.         Rx.<td>R. R. R</td><td>  R.   R.   R.   R.   R.   R.   R.   R.</td><td>  Rx   Rx   Rx   Rx   Rx   Rx   Rx   Rx</td><td>  R.   R.   R.   R.   R.   R.   R.   R.</td><td>  R.   R.   R.   R.   R.   R.   R.   R.</td><td>  R.c.   R.c.  </td><td>  R.   R.   R.   R.   R.   R.   R.   R.</td></td>	R.         R.<	Rx.         Rx. <td>R. R. R</td> <td>  R.   R.   R.   R.   R.   R.   R.   R.</td> <td>  Rx   Rx   Rx   Rx   Rx   Rx   Rx   Rx</td> <td>  R.   R.   R.   R.   R.   R.   R.   R.</td> <td>  R.   R.   R.   R.   R.   R.   R.   R.</td> <td>  R.c.   R.c.  </td> <td>  R.   R.   R.   R.   R.   R.   R.   R.</td>	R. R	R.   R.   R.   R.   R.   R.   R.   R.	Rx   Rx   Rx   Rx   Rx   Rx   Rx   Rx	R.   R.   R.   R.   R.   R.   R.   R.	R.   R.   R.   R.   R.   R.   R.   R.	R.c.	R.   R.   R.   R.   R.   R.   R.   R.

29. The total working expenses amounted to Rx. 5,074 less than those of the previous year, the decrease being the net result of increases and decreases in different provinces. The principal increases and decreases were:—

30. Bengal, which shows with the Punjab and Bombay, vide paragraph 23 above, a falling off in revenue, exhibits an increase in working expenses and maintenance. The Punjab, Madras, and Bombay show considerable reductions, and in the North-Western Provinces the increase of Rx. 1,741 is far more than counterbalanced by the increase of revenue, which was Rx. 16,210.

31. In Bengal the increased charges were due to the repairs of damages caused by the high floods of 1892 and 1893 in the Orissa and Midnapore Canal districts.

32. In Madras the decrease was chiefly due to a special payment of Rx. 3,660 having been made in 1892-93 to the Telegraph Department on account of the telegraph line along the Karnul Canal which has been dismantled.

33. In Bombay the decrease was due to the charges for maintenance and up-keep of the Desert, Begari, and Mutha Canals having been smaller than in the previous year.

34. The cost of maintenance and working per acre irrigated in the different provinces during the past five years, and the percentage of the outlay upon maintenance and working on gross revenue, are as follows:—

Cost of maintenance and working per irrigated acre.

	Provinces,	1880-00	1890-91.	1891-92	1802-93,	1893-94.	Rumanns.
3.	Bombay—Sind	Rx. *05 *08 *12	Rx. '06 '08 '12	Rx. -07 -08 -11	Rx. -06 -08 -14	Rx06 } -08 } -14	Including old main- tenauce charges.
5	North-Western Provinces and Oudh	·15 ·25 ·32	·15 - ·25 ·35 .	14 19 29	*16 *22 *51	·17 ·27 ·38	Excluding mainten- ance of Tidal Canal,

The provinces are arranged in the order of smallness of charge; the variations are considerable.

Percentage of maintenance and working on gross revenue.

1. Madras	Rx. 22·2	Rx. 23.8	Rx. 23.0	Rx. 23:0	Rx. 21.7	Including old revenue
2. Bombay-Sind	29.7	32-3	46.7	33-7	32.8	and working expen-
Oudh	47.1	42.1	38.0	39.5	3.88	
4. Funjab	42.6	37-3	37.3	36.0	45.7	4325-156799-1589-1689
5. Bombay-Decean and Gujarat .	54.3	48.6	480	51.4	47.2	
6. Bengal	94.5	106.9	89-9	78.9	92.6	

The variations indicated here are also great.

35. The percentages of the cost of revenue management on the revenue collected in the different provinces during the five years ending 1893-94, were as follows:—

N.B.—In the term revenue management is included shares of Direction, Executive and Navigation Establishments and also a share collection establishment.

Provinces.	1889-90,	1890-91.	1801-92.	1902-93,	1893-94.	REMARKS.
1. Madras 2. Bombay—Sind 3. North-Western Provinces and	Rx. 8·8 10·1	Rx. 8:8 10:9	Rx. 8.8 11.4	Rx. 8-9 10-4	Rx. + 9 0 10 6	
Ondh Bombay—Deccan and Gujarat Punjab Bengal	13.5 14.5 15.1 28.5	14·3 14·1 13·0 33·2	12·8 15·2 12·1 28·1	13·6 17·8 13·0 26·0	14·5 16·1 16·9 28·7	

It is interesting to observe how the provinces change places in the above three tables. Per acre irrigated the Sind Canals cost least, but the Madras works are kept up and managed for the smallest share of the gross income. The Punjab compares favourably with the North-Western Provinces by the first test, but not by the second and third.

#### MINOR WORKS.

# Works for which Capital and Revenue Accounts are kept.

36. The following statement shews in detail the financial results of Minor Works for which Capital and Revenue accounts are kept during, and up to the end of, the year 1893-94:—

81.		-	-					A Comment			
ks.		CAPITAL	OUTLAY T 1893-94.	O BEND OF	Riv	ENUS Accor	UNT POR 18	03-94.	Ravanus	Account to a 1893-94.	NO OF
Number of works.	Minon Works,	Direct,	Indirect.	Total.	Gross Revenue.	Working Expenses.	Net Revenue.	Percentage of net revenue on Capital outlay,	Gross Revenue,	Working Expenses,	Net Revenue.
2	BALUCHISTAN—	Rx.	Rx.	Rx.	Rx.	Rx.	Rx.	Rx.	· Rx.	Rx.	Rx.
	Khusdil Khan Re- servoir Shebo Canal	88,549 65,296	1,191 1,142	89,740 66,438	3,350 1,541	1,372 860	1,978 681	2·20 1·02	5,395 7,861	4,109 5,589	1,286 2,272
	TOTAL .	153,845	2,333	156,178	4,891	2,232	2,659	1.70	13,256	9,698	3,558
3	RAJPUTANA— Irrigation— Tauks in Ajmere Sub-Collectorate. Tanks in Beawar , , in Todgarh ,,	147,006 60,606 20,817	4,285 3,460 407	151,291 64,066 21,224	6,384 5,131 2,678	3,356 686 529	3,028 4,445 2,149	2·00 6·93 10·12	117,687 89,479 42,695	61,313 51,219	56,374 38,260
	Tetal .	228,429	8,152	236,581	14,193	4,571	9,622	4:06		28,158	14,537
1	LOWER BURMA-		0,102	200,001	13,100	4,071	0,022	4:06	249,861	140,690	109,171
	Irrawaddy embank- ments	305,893	9,317	314,210	95,697	18,082	77,665	24-72	1,102,935	289,205	813,730
3	BENGAL — Irrigation— Sarun Project .	66,957	2,718	69,675	628	620	8	-01	24,359	36,035	-11,676
E 31	Navigation— Calcutta and Eastern Canals Orissa Coast Canal	529,504 428,558	6,240 10,431	535,744 438,989	42,054 9,657	28,713 9,814	13,341 —157	2.49	2,269,691 51,769	918,890 65,478	1,350,801 —13,709
	A COLUMN TO SERVICE SE	958,062	16,671	974,733	51,711	38,527	13,184	1.35	2,321,460	984,368	1,337,092
	TOTAL .	1,025,019	19,389	1,044,408	52,339	39,147	13,192	1.26	2,345,819	1,020,403	1,325,416
4	NORTH-WESTERN PROVINCES AND OUDH— Irrigation— Dún Canals Rohilkhand Canals Bijnor Canals Bundelkhand Irrigation works	65,200 156,132 11,507 7,436	1,572 16,055 2,118	66,781 172,187 13,625 8,240	9,404 18,578 2,111 972	4,263 9,654 930 805	5,141 3,924 1,181	7·70 2·28 8·67	228,223* 310,173 45,781	127,887 260,460 17,827	100,336 49.773 27,954
	TOTAL .	240,284	20,549	260,833	26,065	15,652	10,413		17,216	20,993	-3,777
5	PUNJAB-	240,204	20,540	200,000	20,000	10,002	10,910	3.99	601,393	427,107	174.286
	Irrigation— Upper Sutlej In- undation Canals	59,364	6,049	65,413	30,911	9,804	21,107	32.27	413,256	366,438	46,818
S.U	Lower Sutlej In- undation Canals.	10,756	254	11,010	60,899	38,572	22,327	202.79	1,584,319	887,001	697,318
	Indus Inundation Canals	68,790	1,973	70,768	26,537	21,102	5,435	7:68	687,820	682,625	5,195
8	Shahpur Inunda- tion Canals	15,806	473	16,279	6,153	4,380	1,773	10.89	58,152	33,531	24.621
	Madhopur Work- shops*	42,415		42,415					3,658	44,945	-41,287
	Total .	197,131	8,749	205,880	124,500	73,858	50,642	24.60	2,747,205	2,014,540	732,665

remain, and an irrigation project. It has no connection with the other works named here, and the question of its exclusion from this account is under

			CAPITAL	OUTLAY TO 1803-94.	BND OF	1	LEVENUE AC 1993	COUNT FOR		RAVENUR A	1893-91.	пир 03
ii.				1803-94.		0.0000000						
Number of works.		Mexca Works.	Direct,	"Indirect.	Total.	Gross Bevenue.	Working Expenses.	Net Revenue.	Percentage of net revenue on Capital outlay.	Gross Revenue.	Working Expenses.	Net Revenue
Nun							12 10		Rx.	Rx.	Rx.	Rx.
	MA	DRAS-	Rx.	Rx.	Rx.	Rx.	Rx.	Rx.			12,559	10000
		rigation— Chembram bakam tank Madras Water-supply and Irrigation Ex-	62,443	11,216	78,659	4,063	-168	4,231	5.74	36,278	48,338	52,5( -12,0)
H.		tension project .	151,583	23,822	175,405	2,184	389	1,795	1.02		162,511	100
		Palar Anient System	191,421	9,837	201,258	15,157	5,282	9,875	4.90	278,323	Country Day	115,8
		Lower Caleroon , .	55,000	1,440	56,440	31,113	4,194	26,919	47.69	962,121	11,852	814,2
		Pelandorai Anicut System •	40,998	4,148	45,146	2,597	2,039	558	1.23	17,561	44,196	-26,0
		Other (14) works .	155,763	4,095	159,858	41,222	3,637	37,585	23:51	841,216	396,540	444,6
			657,208	54,558	711,766	96,336	15,373	80,963	11.37	2,200,624	811,096	1,388,6
	N	avigation- Bucking ham Canal .	784,359	46,887	831,246	10,829	12,449	-1,620		205,528	277,533	-12,0
		Other (3) works .	17,334	1,318	18,652	117	396	-279	*	762	4,281	-3,5
組			801,693	48,205	849,898	10,946	12,845	-1,899	•••	266.290	281,814	-15,8
		AUAMA	1,458,901	102,763	(a) 1,561,664	107,282	28,218	(b) 79,064	5.06	2,466,914	1,093,810	1,373,1
	To	MBAY— rigation— Sukkur Canal	132,874	5,997	138,871	16,823	4,091	12,732	+ 9.17	169,783	106,411	63,3
	3	Ghar "	41,554	2,544	44,098*	63,452	15,645	47,807	108.41	1,462,206	419,847	1,042,
7	0	Marak Great Canal	19,360	795	20,155	6,302	1,472	4,830	23.97	111,695	44,518	67,
1	SIND.	Sarfrazwah "	11,856	612	12,468	2,649	1,166	1,483	11.89	36,817	29,984	6,8
		Fuleli "	123,194	4,536	127,730	34,097	16,540	17,557	13.75	806,218	541,693	204,8
		Other works	8,923	673	9,596	251	718	*467		33,962	26,962	7,0
2113		TOTAL SIND .	337,761	15,157	352,918	123,574	39,632	(c)83,942	23.79	2,620,681	1,169,415	1,451
		Khari Cut . :	16,987	1,198	18,185	788	470	318	1.75	6,429	4,771	1,
		Jamda Canals	98,953	4,985	103,938	1,036	892	144	-14	12,282	27,786	-15,
		Parsul tank	21,154	703	21,857	135	97	38	-17	543	305	
		Prayara River Works— Ojhar Canal	30,958	2,061	33,019	318	681	-363	•	7,880	9,191	-1,
		Bhatodi tank	35,268	2,702	37,970	658	. 415	243	*64	8,039	6,154	1,
	2	Matoba "	18,815	1,258	20,073	1,035	257	778	3.88	9,274	3,365	-6,
	GUJARAT.	Shirsuphal tank .	20,929	1,227	22,156	350	385	-35		3,124	3,651	-
		Bhadalvadi " .	21,311	1,412	22,723	416	212	204	-90	2,804	2,606	
27	AND	Ashti	75,218	7,891	83,109	430	544	-114		3,070	8,237	-4
	DECCAN	Upper Man River Works	40,742	2,214	42,956	674	512	162	-38	5.285	6,420	-I,
	DEC	Yerla River Irrigation Works	63,575	4,286	67,861	660	595	65	10	8,919	11,462	-2
		Maini tank	36,767	2,224	38,991	707	783	-76		8,600	8,521	
		Madag ,, Gokak Canal, 1st Sec-	16,125	635	16,760	212	92	120	.71	4,316	5,363	-1
		tion, and Storage Works	75,006	1,376	76,382	8,064	605	2,459	3.22	8,587	2,580	6,
74	6	Other Works TOTAL DECCAN AND	75,124	7,839	82,963	1,782	899	883	1.06	22,431	18,059	-6,
		GUJARAT .	646,932	42,011	688,943	12,265	7,439	4,826	.70	112,492	118,774	See all
		TOTAL BOMBAY .	984,693	57,168	1,041,861		47,071	88,768	8:52	2,733,173	1,288,189	
7.5		AND NAVIGATION .		61,876	2.996,984 1,824,631	62,657	77,409 51,372	320,740 11,285	10.70	9,672,806 2,587,750	5,017,460 1,266,183	2 1,024
33		TOTAL .	4,594,195	227,420	4,821,615	560,806	228,781	332,025	6.89	12,260 556	6,288,640	30,070

(a) Exclusive of the Capital outley on the Vedaranium Canal, which has not yet been ascertained.
(b) Excludes Ex. 77.859, sharedue to old irrigation.
(c) Dof. Ex. 39,125 do. do.
(d) Exclusive of Ex. 41,287, expenditure incurred from the grant under 35—Construction of Protective Irrigation Works which is shown under Works.

37. The net revenue derived in 1893-94 from the works constructed for irrigation purposes (excluding navigation) taken collectively amounted to 10.70 per cent. on the Capital outlay to end of the year against 9.82 in the previous year. Excluding the special credit of Rx. 78,047 from the figures of 1892-93 under Madras alluded to in paragraph 33 of the previous year's note; the percentage of net revenue in 1892-93 was 7.16. The improvement in the financial result attained in 1893-94 is, therefore, very satisfactory.

38. The revenue from the navigation canals exceeded the working expenses by Rx. 11,285 against the corresponding figure of Rx. 19,063 in the previous year. The low return is due to a falling off in revenue from the Calcutta and Eastern Canals in Bengal. This decrease is ascribed to a number of reasons, but principally to the very large increase in the number of steamers and flats plying via the Nadia rivers and the Sunderbunds. Another reason for the decline in traffic is the deterioration of certain parts of the canal route, which renders it necessary to close the route yearly for a greater length of time. Further, independently of the decrease in traffic, flats are being largely used instead of native boats and thus a considerable loss has resulted in tolls. While there was a fall in gross revenue from these (Calcutta and Eastern) canals, there was an increase of Rx. 3,495 in working expenses over the previous year.

39. The loss in working the Buckingham Canal during 1893-94 was Rx. 1,620 against Rx. 1,859 in 1892-93 and Rx. 7,460 in 1891-92. The total Capital outlay on this canal to the end of 1893-94 has amounted to Rx. 831,246 and the net loss to Rx. 12,005 against Rx. 10,385 at the end of 1892-93, excluding of course interest which does not appear in the accounts, as the canal was constructed from revenue and not from borrowed money. Part of this canal was opened in 1877-78.

40. The revenue derived from Minor Works for which Capital and Revenue accounts are kept during 1893-94 is detailed in the following statement, and compared with the revenue of the previous four years:—

		Dung	IRIIGATION BRURNUR.			*#1									To	TOTALS OF PREVIOUS FOUR	US BOUR TRABE	
		Share of enhanced land revenue due to irrigation works,	.wsln:-tolaW	Owner's rates.	sale of water.	mot to glqqus-təinW	Plantations,	Other canal produce.	Water-power.	Navigation receipts.	Bents of Bolldings.	Eluca*	Miscellancous.	Total.	1892-90,	1891-02.	1800-01.	1580-90,
		Br.	Rr.	Rx.	Rx.	Rx.	Rx.	Rr.	Rx.	Rx.	Rx.	Rr.	Rr.	Rr.	Bx.	Br.	Bx.	Rx.
Rajputana	İ	12,876	1,084	1			i	14	11	1	4	90	165	14,193	661'6	8,487	12,474	12,756
Paluchistan		1	4,884	1				í	1				4.	4,891	3,953	1,641	1,621	787
Lower Burms		95,547	1	i			28	*	1	1	122			95,697	90,212	901,77	70,176	108,59
Bengal		1	623	1		1	4	49	1	99,150	352	1	1,146	52,339	54,658	60,311	62,765	68,399
North-Western Provinces and Oudh	d Oudh,	8,629	12,912	1,220	174	ı	572	i vine	2,395	1		539	184	26,065	27,291	26,204	25,671	24,406
Punjab		73,978	31,218		10	1	1,130	-15,658	i	10	39	123	33,660	124,500	105,300	105,794	102,359	102,207
Madrais		94,495	ı	1	ı	1,291	124	915		10,465	53	i	28	107,282	145,939	25,760	73,862	26,543
Bombay		118,552	12,625	1	7	•	537	1,080	1,968	1	99	-	1,109	135,839	127,170	146,135	144,195	135,210
Total for 1893-94		404,077	68,246	1,520	180	1,221	2,395	-13,585	4,363	60,620	909	203	36,260	560,806	563,722	452,037	493,123	426,199
1892-93		123,815	811,118	1,387	11.1	1,198	2,383	4,295	2,816	196'19	929	259	27,809	563,722				
1891-93		300,653	34,738	1,271	249	1,440	2,932	7,225	3,333	67,216	815	285	91,880	452,037				
1890-91		343,786	37,833	1,317	249	1,101	209-	3,613	2,279	67,050	369	335	35,698	493,123				
1889-90	1. 0	288,053	82,223	1,180	216	1,154	2,423	4,173	2,685	62,841	454	220	29,678	426,199				

41. The Punjab is the province which shows the best result.

Bengal appears to show the worst result.

Bombay and the North-Western Provinces are steady, and Madras has done well except for the Buckingham Canal.

Lower Burma, Rajputana, and Baluchistan all show marked improvement.

42. It will be observed that there has been a great increase in water-rates. This was chiefly in the Punjab and Bombay. In the Punjab a large portion of the increase is due to the water-rates levied on the Fazlwah and Dori Canals, and the value of the Government share of produce on other canals hitherto credited under the sub-head "Other canal produce," were written back in the year under review to the proper head "Water-rates." This explains also the minus entry under the former head (Other canal produce).

There has been an increase under water-power which gives a satisfactory

indication of a direction in which revenue might perhaps be developed.

The navigation receipts as have been noticed above are not increasing.

43. The following are the explanations of the principal increases by provinces:—

Rajputana.—The increase is due to certain arrears having been realized in 1893-94.

Lower Burma.—The improvement is due to larger area cultivated in 1893-94.

Punjab.—The increase is due chiefly to an improvement in revenue earned by the Upper Sutlej Canals owing to the good harvests of Rabi of 1892-93 and Kharif of 1893 and to the enhancement of rates in the Lahore District.

Madras.—Owing to the inclusion in the figures of 1892-93 under Madras of the Irrigation revenue of 1891-92 (Rx. 82,154), the comparison between the figures of the two years is vitiated. Excluding this special credit the figures compare as follows:—

			- Clair	Inc	rease		-		43,497
1893-94	•					M		•	107,282
1892-93						×		2.0	63,785

The increase is due chiefly to the larger area irrigated during the year.

Bombay.—The increased revenue was realized chiefly from the canals in Sind.

44. The working expenses of the year 1893-94 and of the previous four years are shown in the following statement:—

											Totald	IN OF PRINTOUS	FOUR YSABS.	
		ф	bojus•				•	·kož						
		dan pu	or bus o	gus	-tasle	-seof		tario to	*saZavu		1803-03.	1891-92.	1890-91.	1989-00.
	10	a anolane).	oouvuosalv	unfelfdets	i pue stooj	bne short	*osuadeng	Total dire	lo toexibal	LetoT				
		×a	K	a :	r E	Re	Br.	Br.	Br.	Rx.	Bx.	Rs.	Br.	Ex.
		Br.	Rx.	lcr.	NA.			6077	198	4.671	9,885	10,671	5,961	5,811
Rejputana		. 190	2,749	1,697	-203	15		004/4						
			1,732	429	11	1	:	2,172	09	2,232	1,736	3,180	2,277	230
Faluchistan	•	6.130		5,951	16		28	17,671	361	18,032	29,626	46,178	20,393	18,416
Lower Burms			°	12,452	2,218			87,404	1,743	39,147	34,586	43,501	43,964	38,817
Bengal				8 879	25	100		14,421	1,231	15,652	17,554	17,413	17,643	16,548
North-Western Provinces and Oudh		202	4,521	doc					0000	79 850	F87 89	68.785	86,123	70,856
Punjab		4,878	8 44,294	21,270	386	•	- F	70,812	3,040	10,090	700,000			
Medina		4,302	21,448	168'6	419	ı	1	27,456	762	28,218	47,905	58,467	44,932	31,099
Beatle		3,409	9 18,774	22,919	824	. 1	ı	45,426	1,645	47,071	46,732	63,946	61,865	69,730
· homony													1	1
							ş	910 705	8.086	228.781	256,751	312,141	283,158	241,516
	Total for 1893.94	11,012	2 122,093	83,482	3,196	91	2	212,123	0000					
	1892-93	82,20	6 121,183	89,934	3,185	:	-18	216,583	10,168	256,751				
	1891-93	. 64,031	1 153,207	91,249	2,663	i	279	301,429	917,01	312,141				
	1890-91	29,374	4 151,940	87,584	4,390	or.	18	273,113	10,045	283,158				
	1889-00	. 17,084	4 134,674	77,460	3,706	15	-11	232,922	8,594	241,516				1
一 10 00 00 00 00 00 00 00 00 00 00 00 00						No. of Lot	100000	Section 1		See Mile		The state of the s		

### SUPPLEMENT TO THE GAZETTE OF INDIA, AUGUST 17, 1895. . 1189

The reduction in the outlay upon extensions and improvements is, no doubt, due to the new rule introduced as paragraph 36, Chapter V, P. W. D. Code, Vol. II.

45. The total decrease of Rx. 27,970, as compared with 1892-93, occurred chiefly in the undernoted provinces:—

Rajputana.—The decrease is due to the closing of famine relief works and to the withdrawal of the extra establishment entertained on this account.

Lower Burma.—The decrease is due to unusually large outlay having been incurred in the earlier year for raising, strengthening, and retiring several miles of the Irrawaddy embankments threatened by river encroachments.

Madras.—The decrease is due to expenditure in 1893-94 on projects in the North and South Arcot districts being less than in 1892-93 and partly to a write-back during the year of expenditure on the Cheyar Anicut from "Revenue" to "Capital."

46. The following table gives the percentages of expenditure on revenue in each province during the past five years:—

			1839-00.			1890-91.			1891-93,			1892-93.			1993-04.		2 2 2 2 3
PROTECTE		Revenue.	Erpendilme.	Percentage.	geaenne"	Espondițure.	T. D. Constitution	Hevenue,	Expenditure	Percentage.	Revenue.	Expenditure.	Percentage.	Revenue.	Expenditure.	Percentage.	17年19年11日1日
Rajputana .		Rx. 12,756	. Rx. 5,811	Rx. 45-6	Bx. 12,474	Rx. 5,961	Ar.8	-Bx. 8,487	Bx. 10,671	Rx	R&. 9,199	R. 9,885	Bx. 107-46	Rx= 14,193	Rx. 4,571	Rr., 38-21	The state of
Baluchistan		. 187	68 2	30-4	1,691	2,277	140-5	1,641	3,180	193.8	8,953	1,736	43-92	4.891	2,233	45-68	
Lower Burms		65,801	18,416	28-0	70,176	20,393	29-1	77,706	46,178	29.4	90,312	29,626	32.81	95,697	18,032	18-84	
, Bengal		68,399	38,817	9.99	62,765	43,964	70.0	60,311	49,501	123.1	54,658	34,586	63-28	62,339	39,147	74.79	
North-Western Provinces and Oudis		54,496	16,548	67.5	. 25,671	17,643	68-7	26,203	17,418	9.99	27,291	17,554	64/32	26,065	15,652	60-09	
Panjah	•	102,207	70,856	. 69.3	102,359	86,123	84-1	105,794	68,785	0.29	105,300	68,727	65.27	124,500	73,858	59-32	VI - 222 (VIS) 11.
Medras		26,543	31,099	III.	73,862	44,932	8.09	25,760	58,467	297-0	145,939	47,905	32-83	107,282	28,218	26.30	
Bombay		135,210	69,730	41.2	144,195	61,865	623	146,135	63,946	8:87	127,170	46,732	36.75	135,839	47,071	34.65	
Torut		486,100	241,516	7.99	\$21.88	283,158	67.4	459,037	312,141	1-69	563,799	256,751	45.58	560,808	988,781	08-07	-

The percentage of expenditure on revenue for the whole of India during the year shows a slight decrease as compared with 1892-93. The figures for the respective provinces as a rule show uneven results.

In Rajputana and Lower Burma the results are most irregular, while in Baluchistan the percentages for the last two years have not largely fluctuated.

In Bengal the percentages vary. -

In the North-Western Provinces there is a tendency towards reduction.

In Madras a comparison is hardly possible as explained in paragraphs 37 and 43, aute.

In Bombay the decrease has been steady and marked.

47. The rates per irrigated acre in the different provinces during the year 1893-94 were as follows:—

	Irrigation	Irrigated acreage,	Rate of revenue	COMPAN	D WITH
	(Assessed).		per acre.	1892-93.	1691-92.
	Rx.	Acres.	Rx.	Rx.	Rx.
Baluebistan	4,891	6,251	*78	-38	21
Bengal	1,100	1,568	•70	-31	-19
Deccan and Gujarat	10,301	25,253	*41	)	
Bombay Sind	181,290	807,479	-22	3 23	.18
Rajputana	12,510	34,244	-37	-35	. 72
Madras	171,473	471,676	-36	.54	.16
North-Western Provinces and Oudh .	19,389	76,809	-25	-11	. 18
Panjab	97,977	693,594	.14	•07	-09
Total .	498,931	2,116,964	-24	. 21	15
Lower Burma	α) 95,697	•			
Total .	594,628				

(a) Represents actual collections.

Nors.—No acreage is quoted against Lower Burma as the works concerned are only river embanks

### Works for which Capital Accounts are not kept.

48. The receipts and expenditure on account of these works during 1893-94, as recorded in the Finance and Revenue accounts, are shown in the following statement, in comparison with the transactions of the previous four years :-

Works for which Capital Accounts are not kept.

- 4	Works f			PROVINCIAL.		1,00	12,27142,00		TOTAL.		
	Receipts	Expendi			aditure.	Receipts.	Expenditu	re. Rece	ipts. Expe	nditure.	
	Rx.	Rs	c. B	kx.	Rx.	Rx.	Rx		ix.	Rx. 54	
ajputana - •		*	54	-	•	•••					
aluchistan		8	•					•	8		
Upper Burms		23 4	9,108			3,183	3	,193	3,206	52,301	
Lower Burma			.	6,695	46,504	*		881	6,695	47,388	
Bengal				34,674	103,256	1,41	9	1,026	36,093	104,28	
North-Western Provinces Oudh	and				7,040					- 7,0	
Punjab		27	8,371	6,301	12,423	1,5	71	614	7,699	21,	
Madras				5,815	249,31	3		780	5,815	250	
Bombay .		7,949	150,835						7,949	150	
Total for 1893-94 .		8,007	208,368	53,485	418,58	36 - 6	5,973	6,494	67,465	633	
1892-93 •		6,354	240,450	47,712	443,7	59	8,686	10,509	62,75	2 69	
1891-92		6,711	215,147	47,658	487,6	139	8,421	8,918	62,79	9 71	
1890-91		5,840	156,076	46,100	423,	563	6,192	. 7,834	58,18	4 5	
		The second second second	AND DESCRIPTION OF THE PERSON	The second secon	THE RESERVE OF THE PERSON NAMED IN	OF THE PARTY OF TH	5 5 5 5 5 THE R. P. LEWIS CO., LANSING, MICH.		THE PERSON NAMED IN	Carlotte State of	